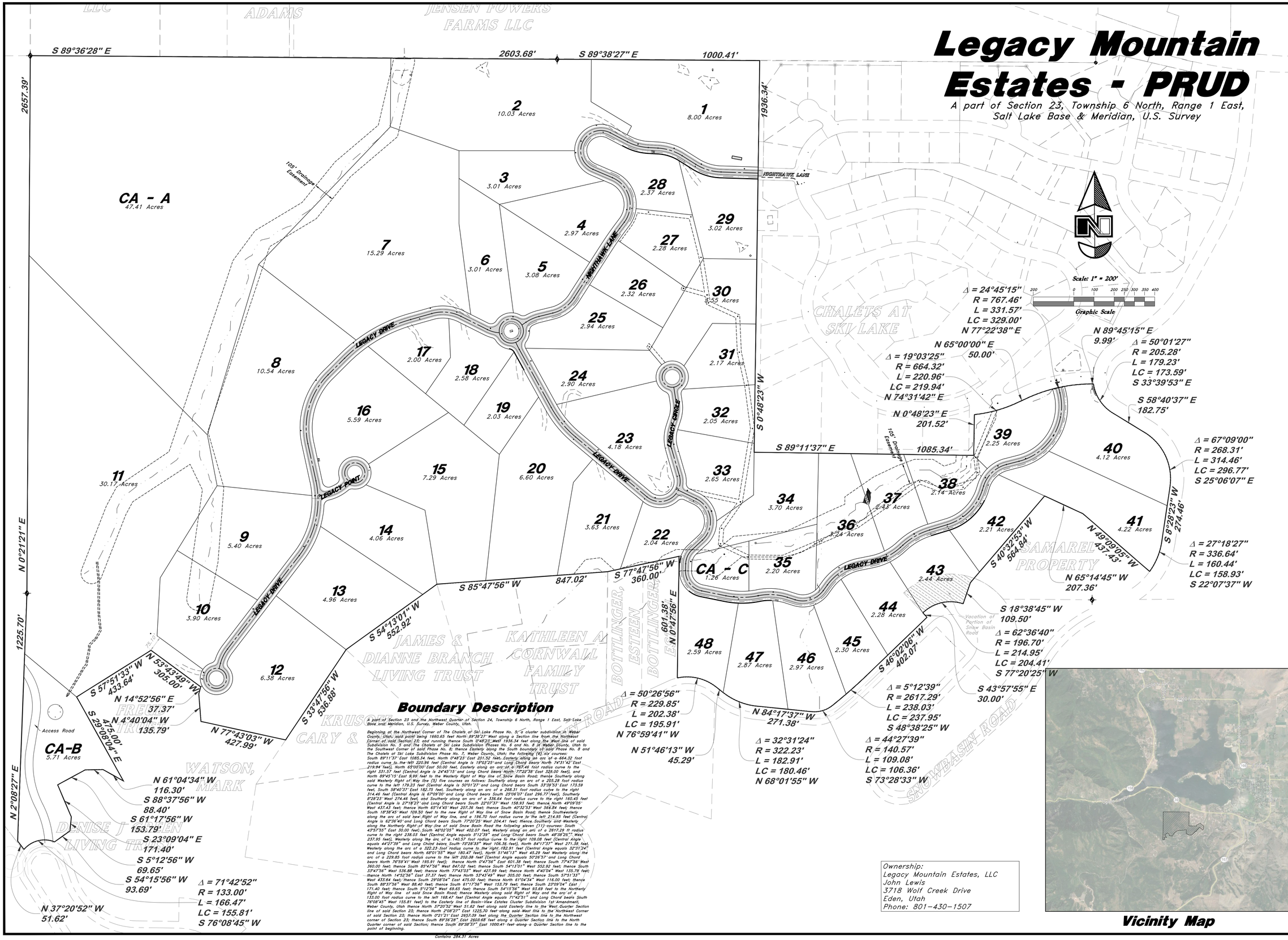
Legacy Mountain Estates - PRUD

A part of Section 23, Township 6 North, Range 1 East, Salt Lake Base & Meridian, U.S. Survey



Boundary Description

A part of Section 23 and the Northwest Quarter of Section 24, Township 6 North, Range 1 East, Salt Lake Base and Meridian, U.S. Survey, Weber County, Utah.

Beginning at the Northwest Corner of The Chalets at Ski Lake Phase No. 5, a cluster subdivision in Weber County, Utah, said point being 1660.65 feet North 89°38'27" West along a Section line from the Northeast Corner of said Section 23; and running thence South 0°48'23" West 1936.34 feet along the West line of said Subdivision No. 5 and The Chalets at Ski Lake Subdivision Phases No. 6 and No. 8 in Weber County, Utah to the Southwest Corner of said Phase No. 8; thence Easterly along the South boundary of said Phase No. 8 and The Chalets at Ski Lake Subdivision Phase No. 7, Weber County, Utah; the following (6) six courses: South 89°11'37" East 1085.34 feet, North 0°48'23" East 201.52 feet, Easterly along an arc of a 664.32 foot radius curve to the left 220.96 feet (Central Angle is 19°03'25" and Long Chord bears North 74°31'42" East 219.94 feet), North 65°00'00" East 50.00 feet, Easterly along an arc of a 767.46 foot radius curve to the right 331.57 feet (Central Angle is 24°45'15" and Long Chord bears North 77°22'38" East 329.00 feet), and North 89°45'15" East 9.99 feet to the Westerly Right of Way line of Snow Basin Road; thence Southerly along said Westerly Right of Way line (5) five courses as follows: Southerly along an arc of a 205.28 foot radius curve to the left 179.23 feet (Central Angle is 50°01'27" and Long Chord bears South 33°39'53" East 173.59 feet, South 58°40'37" East 182.75 feet, Southerly along an arc of a 268.31 foot radius curve to the right 314.46 feet (Central Angle is 67°09'00" and Long Chord bears South 25°06'07" East 296.77 feet), Southerly 8°28'23" West 274.46 feet, and Southerly along an arc of a 336.64 foot radius curve to the right 160.45 feet (Central Angle is 27°18'27" and Long Chord bears South 22°07'37" West 158.93 feet; thence North 49°09'05" West 437.43 feet; thence North 65°14'45" West 207.36 feet; thence South 40°32'53" West 564.84 feet; thence South 18°38'45" West 109.50 feet to the new Right of Way line of Snow Basin Road; thence Southwesterly along the arc of said new Right of Way line, and a 196.70 foot radius curve to the left 214.95 feet (Central Angle is 62°36'40" and Long Chord bears South 77°20'25" West 204.41 feet; thence Southerly and Westerly along the Northerly Right of Way line of said Snow Basin Road the following eleven (11) courses: South 43°57'55" East 30.00 feet, South 46°02'05" West 402.07 feet, Westerly along an arc of a 2617.29 ft radius curve to the right 238.03 feet (Central Angle equals 5°12'39" and Long Chord bears South 48°38'25" West 237.95 feet), Westerly along the arc of a 140.57 foot radius curve to the right 109.08 feet (Central Angle equals 44°27'39" and Long Chord bears South 73°28'33" West 106.36 feet), North 84°17'37" West 271.38 feet, Westerly along the arc of a 322.23 foot radius curve to the right 182.91 feet (Central Angle equals 32°31'24" and Long Chord bears North 68°01'55" West 180.47 feet), North 51°46'13" West 45.29 feet Westerly along the arc of a 229.85 foot radius curve to the left 202.38 feet (Central Angle equals 50°26'56" and Long Chord bears North 76°59'41" West 195.91 feet); thence North 0°47'56" East 601.38 feet; thence South 77°47'56" West 360.00 feet; thence South 85°47'56" West 847.02 feet; thence South 54°13'01" West 552.92 feet; thence South 33°47'56" West 536.88 feet; thence North 77°43'03" West 427.99 feet; thence North 4°40'04" West 135.79 feet; thence North 14°52'56" East 37.37 feet; thence North 53°43'49" West 305.00 feet; thence South 57°51'33" West 433.64 feet; thence South 29°08'04" East 475.00 feet; thence North 61°04'34" West 116.00 feet; thence South 88°37'56" West 88.40 feet; thence South 61°17'56" West 153.79 feet; thence South 23°09'04" East 171.40 feet; thence South 5°12'56" West 69.65 feet; thence South 54°15'56" West 93.69 feet to the Northerly Right of Way line of said Snow Basin Road; thence Westerly along said Right of Way and the arc of a 133.00 foot radius curve to the left 166.47 feet (Central Angle equals 71°42'51" and Long Chord bears South 76°08'45" West 155.81 feet) to the Easterly line of Basin-View Estates Cluster Subdivision 1st Amendment, Weber County, Utah thence North 37°20'52" West 51.62 feet along said Easterly line to the West Quarter Section line of said Section 23; thence North 2°08'27" East 1225.70 feet along said West line to the Northwest Corner of said Section 23; thence North 0°21'21" East 2657.39 feet along the Quarter Section line to the Northwest corner of Section 23; thence South 89°36'28" East 2603.68 feet along a Quarter Section line to the North Quarter corner of said Section; thence South 89°38'37" East 1000.41 feet along a Quarter Section line to the point of beginning.

Contains 284.31 Acres

Ownership:
Legacy Mountain Estates, LLC
John Lewis
3718 Wolf Creek Drive
Eden, Utah
Phone: 801-430-1507

Vicinity Map

REV	DATE	DESCRIPTION

TENTATIVE FINAL

MERIDIAN PROFESSIONAL ENGINEER No. 164... MARK FRASER BARNETT STATE OF UTAH

GREAT BASIN ENGINEERING
5746 SOUTH 1475 EAST OGDEN, UTAH 84403
MAIN (801)394-4515 SLC (801)521-0222 FAX (801)392-7544
WWW.GREATBASINENGINEERING.COM

Overall Site Layout

Legacy Mountain

11 JUN 2021

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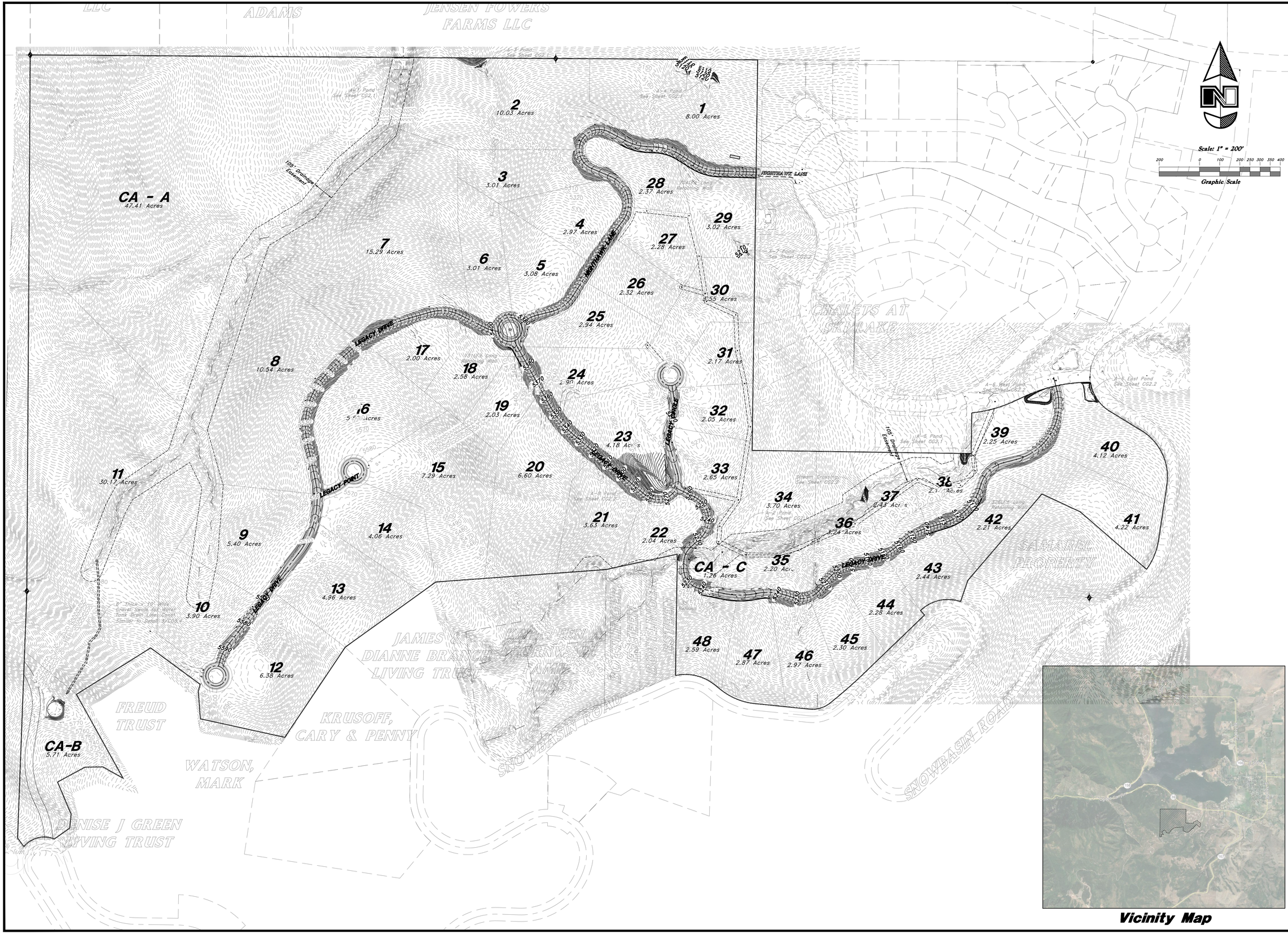
20N224



REV	DATE	DESCRIPTION

TENTATIVE FINAL

GREAT BASIN ENGINEERING
5746 SOUTH 1475 EAST OGDEN, UTAH 84403
MAIN (801)394-4515 SLC (801)521-0222 FAX (801)392-7544
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Overall Grading Plan
Legacy Mountain

11 JUN 2021

SHEET NO.
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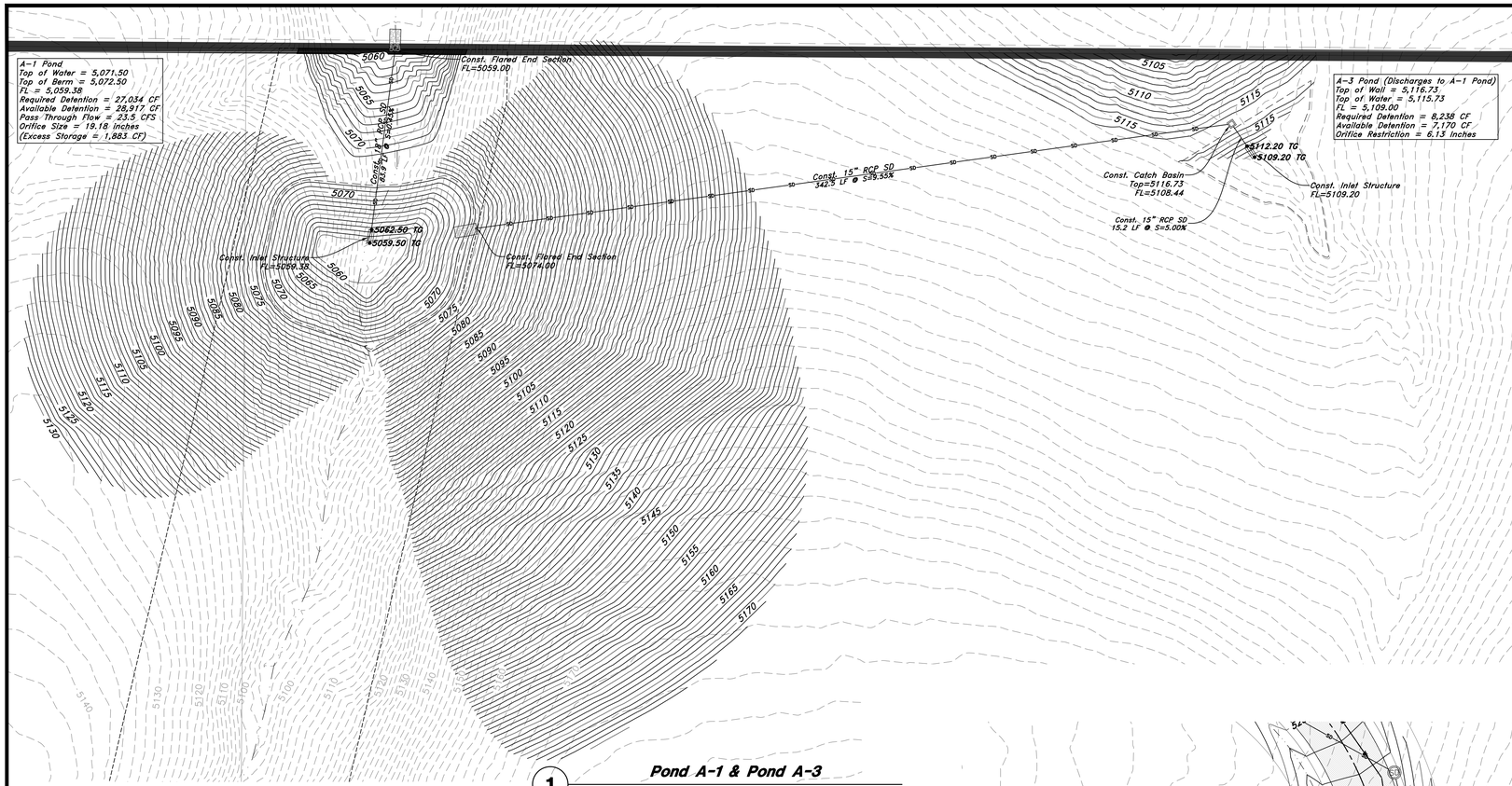
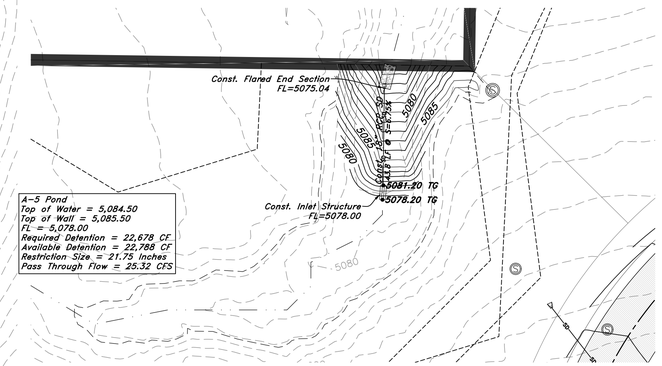
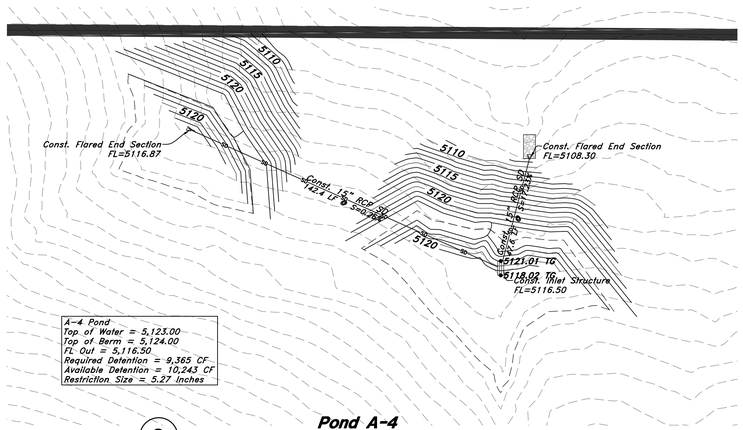


1 Pond A-1 & Pond A-3



4 Pond A-5



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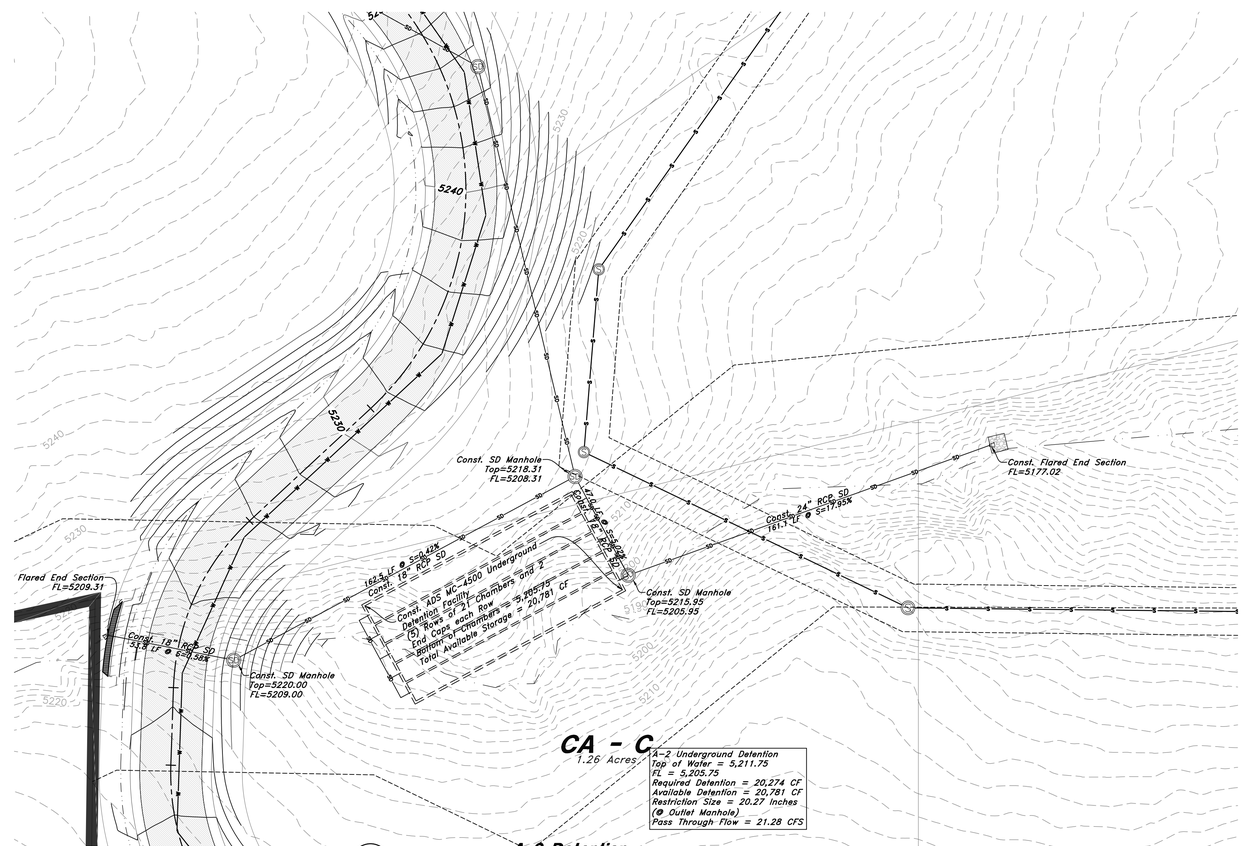

2 A-2 Detention

Scale: 1" = 30'

Graphic Scale

REV	DATE	DESCRIPTION

TENTATIVE FINAL

GREAT BASIN ENGINEERING
5746 SOUTH 1475 EAST OGDEN, UTAH 84403
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Pond Detail Sheet 'A'

Legacy Mountain

11 JUN 2021

SHEET NO.

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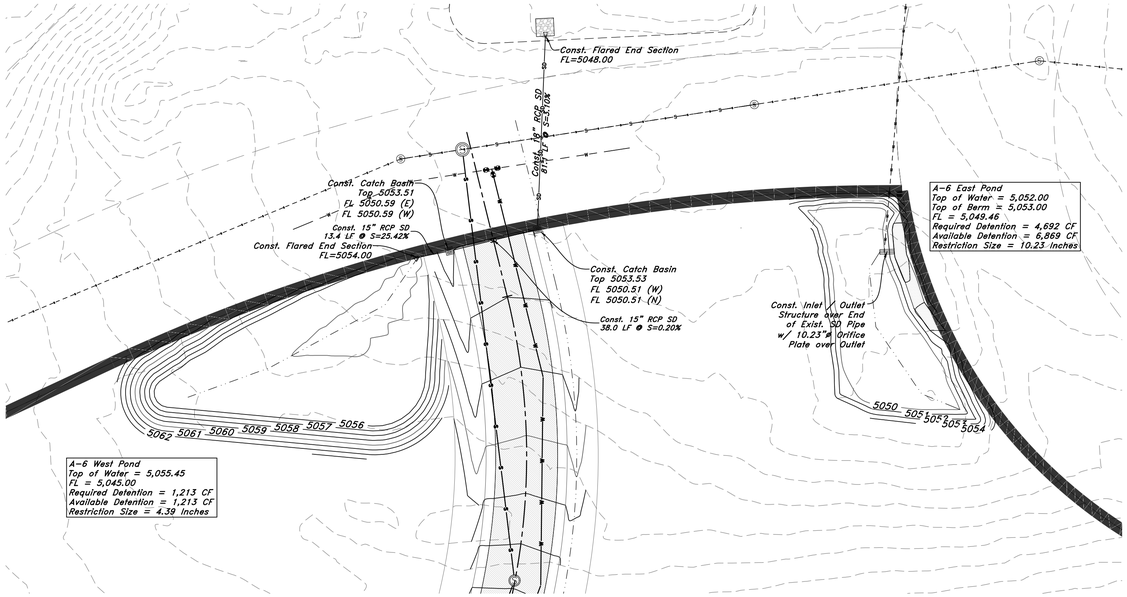
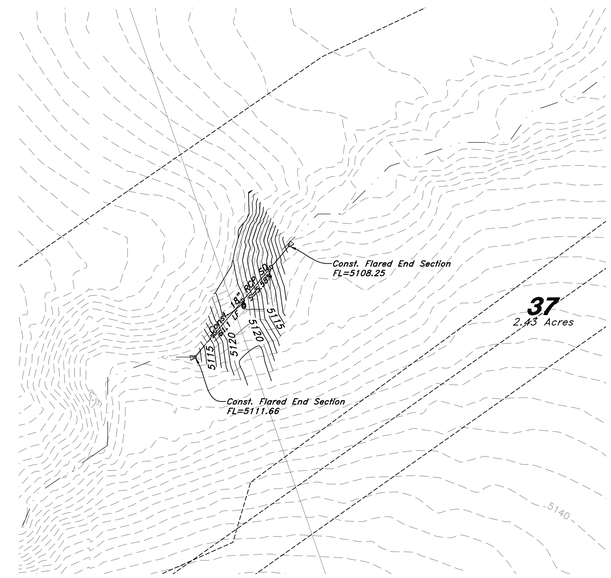


1 **A-6 West Pond & A-6 East Pond**



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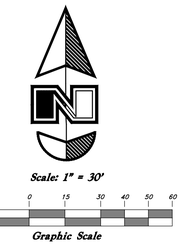

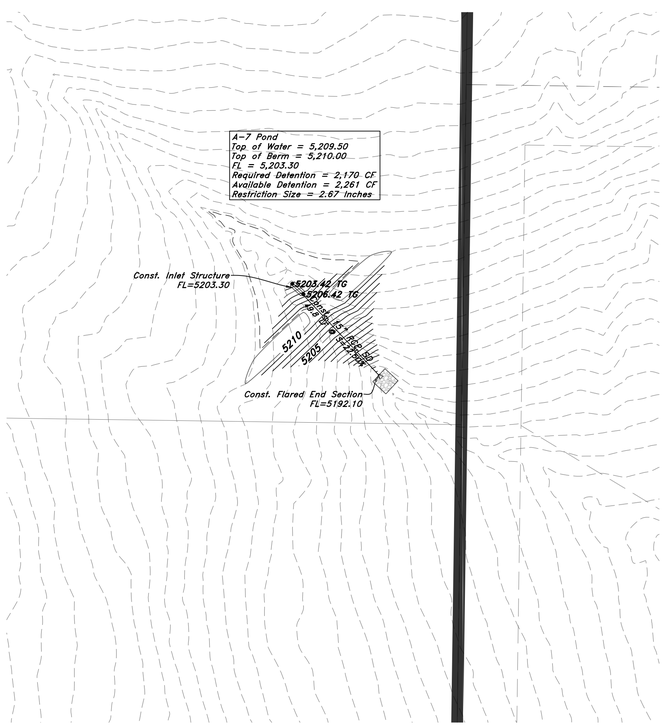

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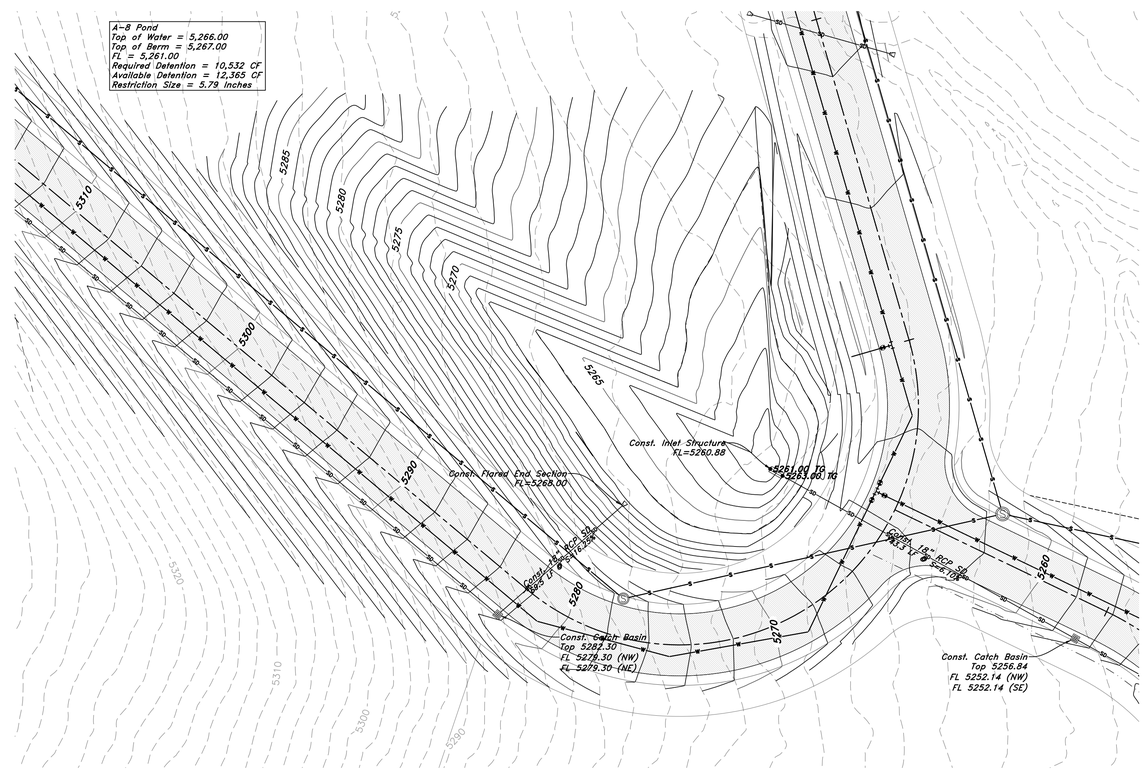


3 **Pond A-8**

REV	DATE	DESCRIPTION

MERIDIAN PROFESSIONAL ENGINEER
No. 166[illegible]
MARK FRANKLIN BARNETT
STATE OF UTAH
TENTATIVE FINAL

GREAT BASIN ENGINEERING
574 SOUTH 1475 EAST OGDEN, UTAH 84403
MAIN (801)394-4515 SLC (801)521-0222 FAX (801)392-7544
WWW.GREATBASINENGINEERING.COM

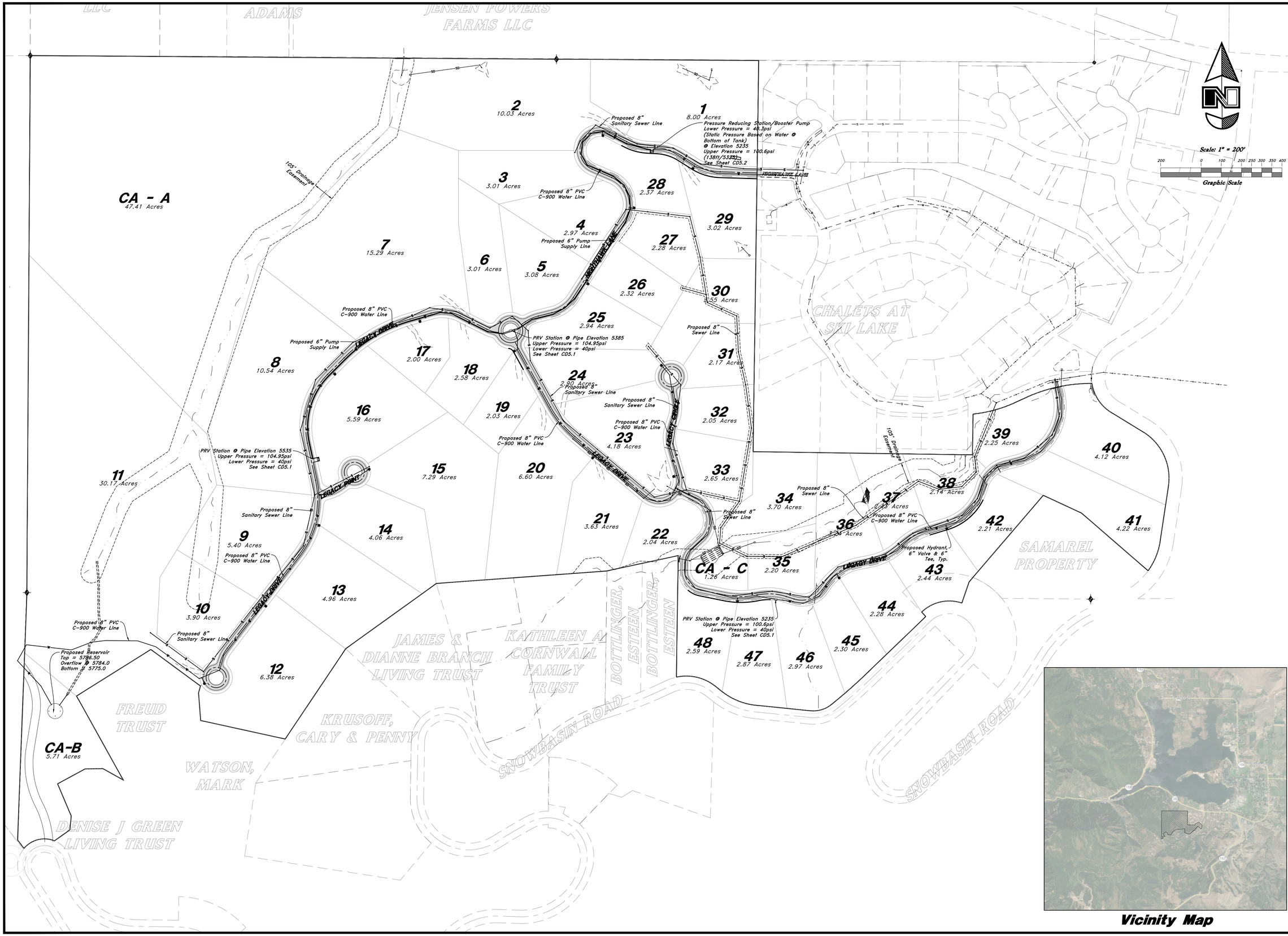
Pond Detail Sheet 'B'

Legacy Mountain

11 JUN 2021

SHEET NO.
CG2.2

20N224



REV	DATE	DESCRIPTION

MERIDIAN PROFESSIONAL ENGINEER No. 166[illegible] MARK FRANCIS BARNETT STATE OF UTAH

TENTATIVE FINAL

GREAT BASIN ENGINEERING
5746 SOUTH 1475 EAST OGDEN, UTAH 84403
MAIN (801)394-4515 FAX (801)392-7544
WWW.GREATBASINENGINEERING.COM

Overall Utility Plan

Legacy Mountain

11 JUN 2021

SHEET NO.

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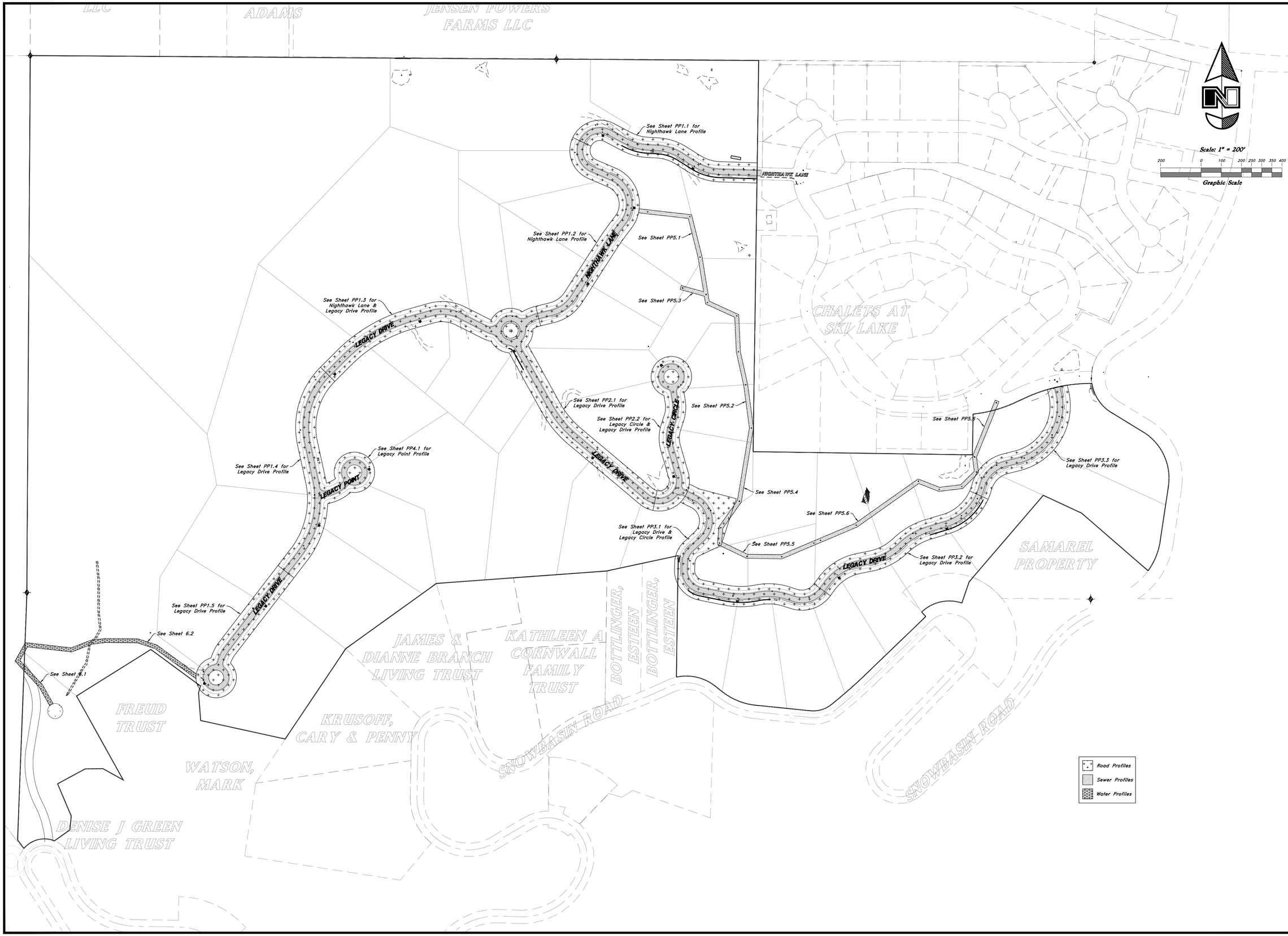
20N224



REV	DATE	DESCRIPTION

LICENSED PROFESSIONAL ENGINEER No. 166447 MARK FRANKE BARNETT 11 JUN 21 STATE OF UTAH

TENTATIVE FINAL

GREAT BASIN ENGINEERING
5746 SOUTH 1475 EAST OGDEN, UTAH 84403
MAIN (801)394-4515 SLC (801)521-0222 FAX (801)392-7544
WWW.GREATBASINENGINEERING.COM

Overall Profile Sheet

Legacy Mountain

11 JUN 2021

SHEET NO.

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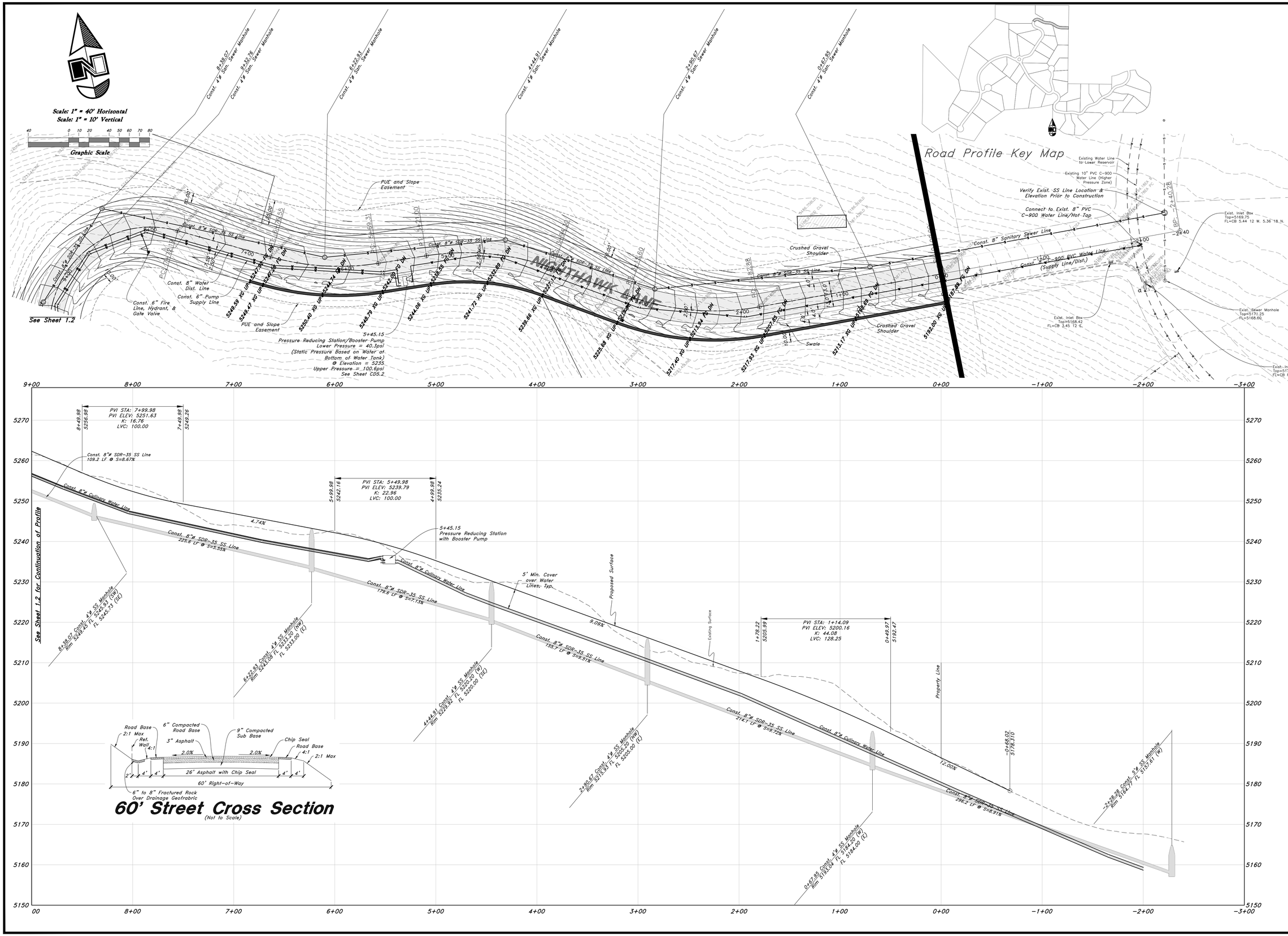
20N224



REV	DATE	DESCRIPTION

TENTATIVE FINAL

GREAT BASIN ENGINEERING
5746 SOUTH 1475 EAST OGDEN, UTAH 84403
MAIN (801)394-4515 S.L.C (801)521-0222 FAX (801)392-7544
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Nighthawk Lane - Profile View 1

Legacy Mountain

11 JUN 2021

SHEET NO.

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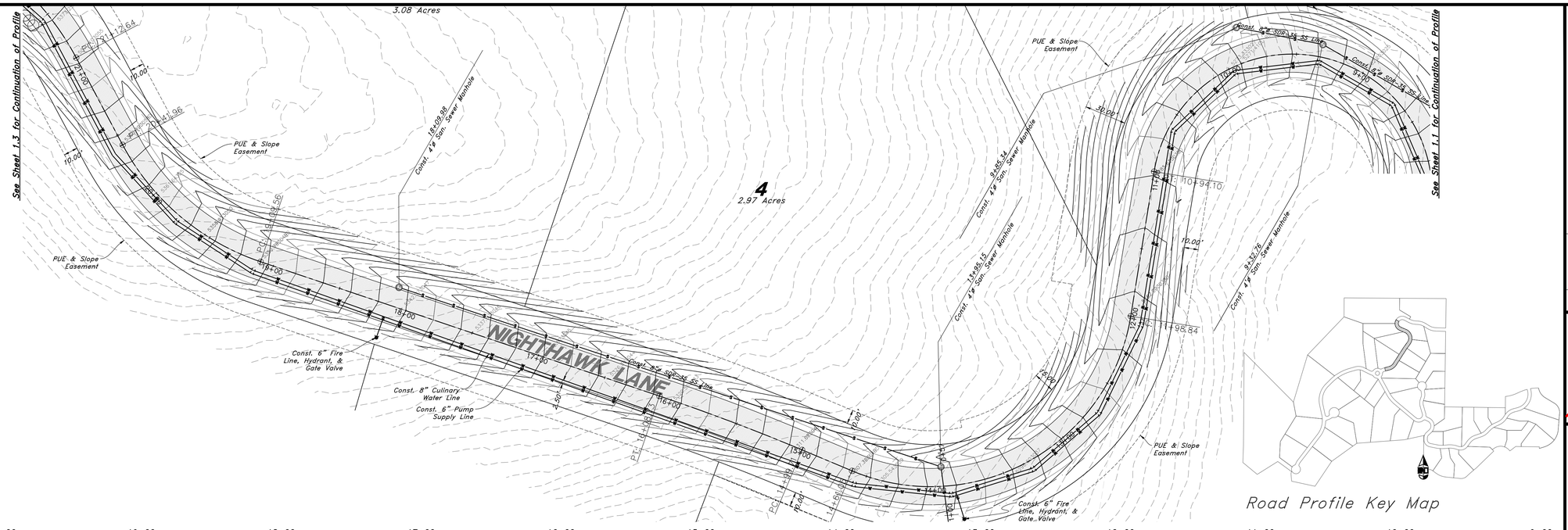
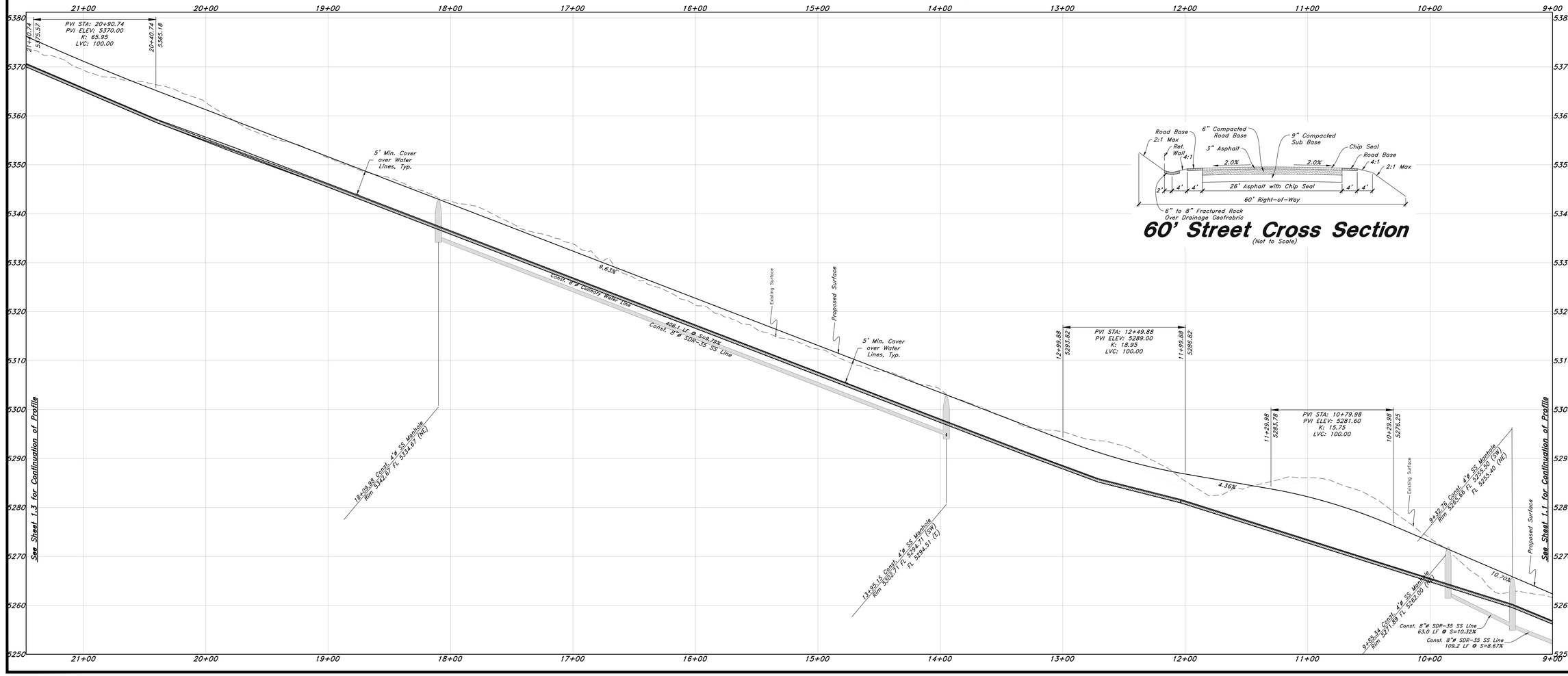
Graphic Scale





60' Street Cross Section

(Not to Scale)

REV	DATE	DESCRIPTION

MARK FRANCIS BARRATT No. 166447 STATE OF UTAH

TENTATIVE FINAL

GREAT BASIN ENGINEERING
574 SOUTH 1475 EAST OGDEN, UTAH 84403
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Nighthawk Lane - Profile View 2

Legacy Mountain

11 JUN 2021

SHEET NO.

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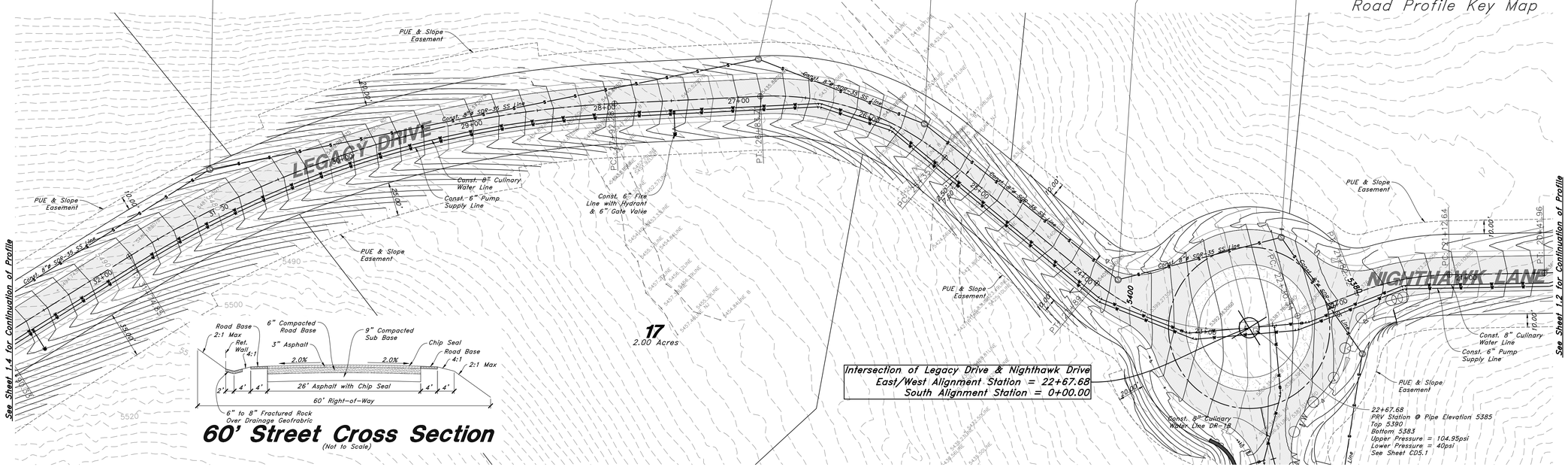
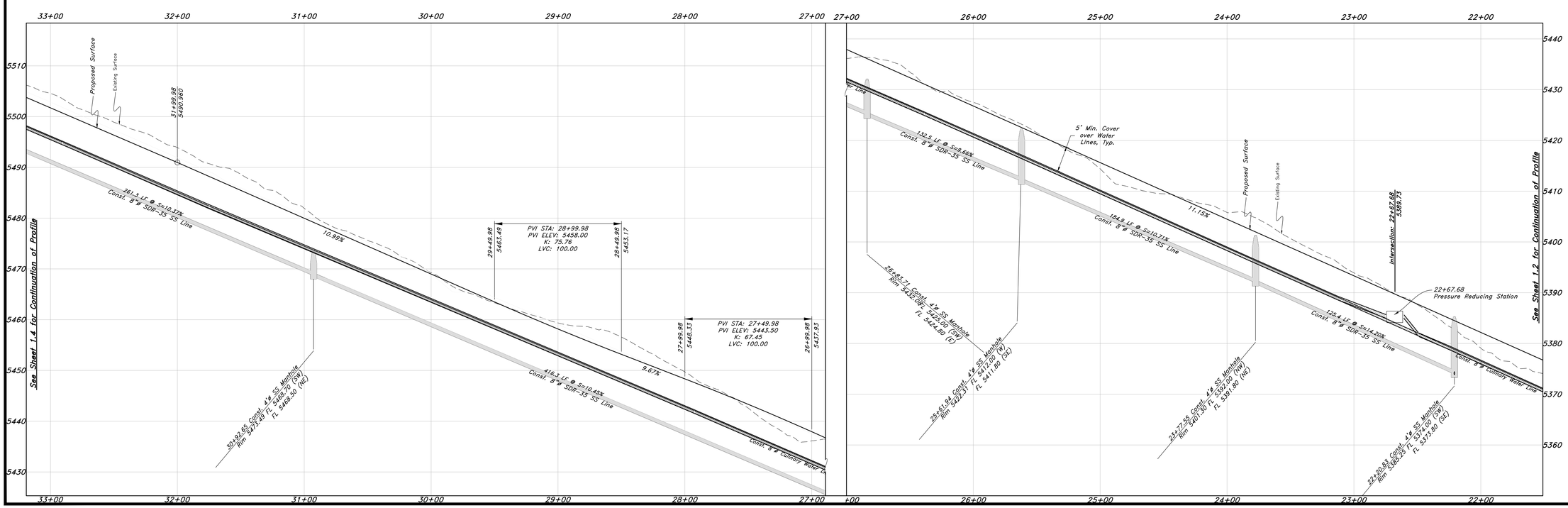


60' Street Cross Section

(Not to Scale)



REV	DATE	DESCRIPTION

TENTATIVE FINAL

GREAT BASIN ENGINEERING
5746 SOUTH 1475 EAST OGDEN, UTAH 84403
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Nighthawk Lane & Legacy Drive

Legacy Mountain

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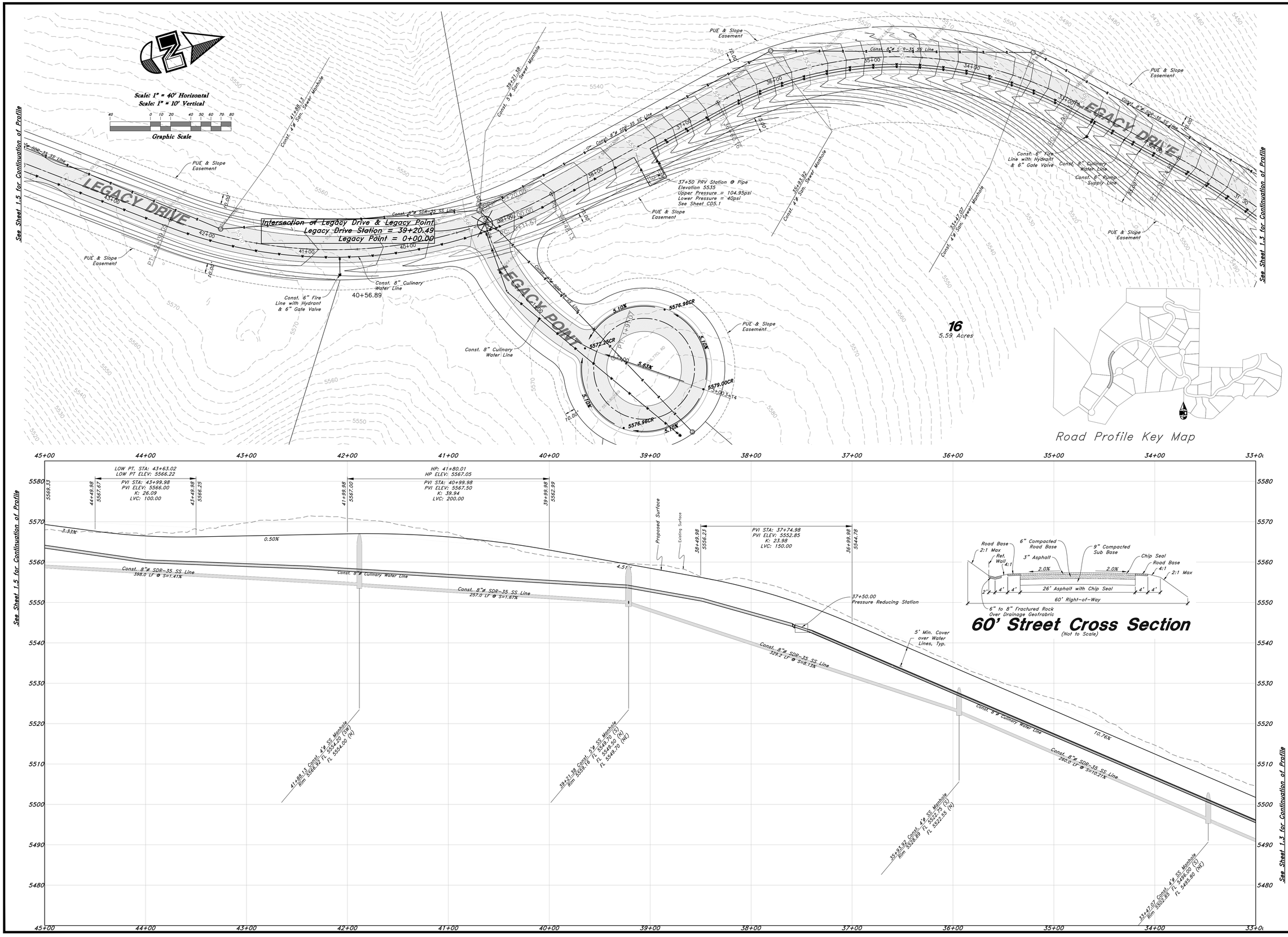

REV	DATE	DESCRIPTION

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Legacy Drive Profile View

Legacy Mountain

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PP1.4

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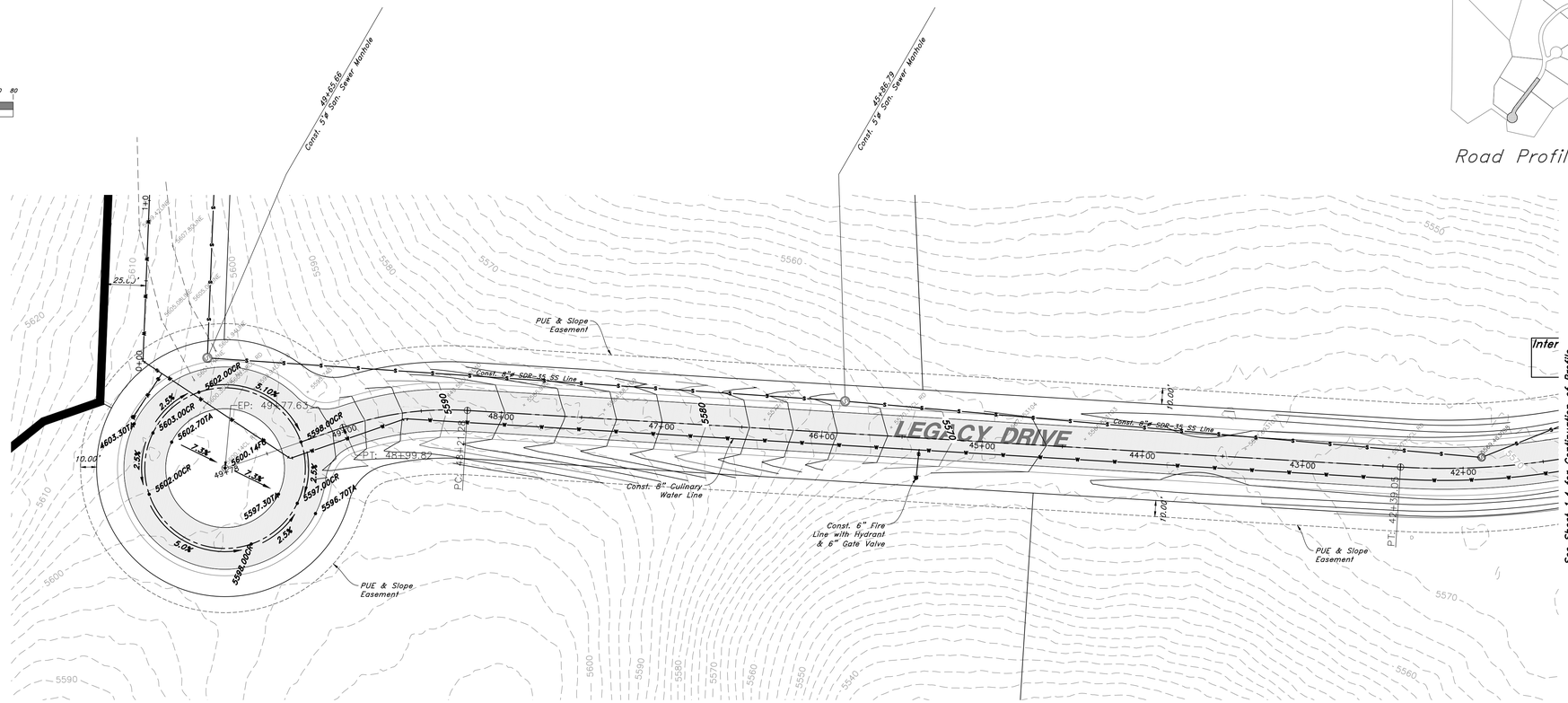
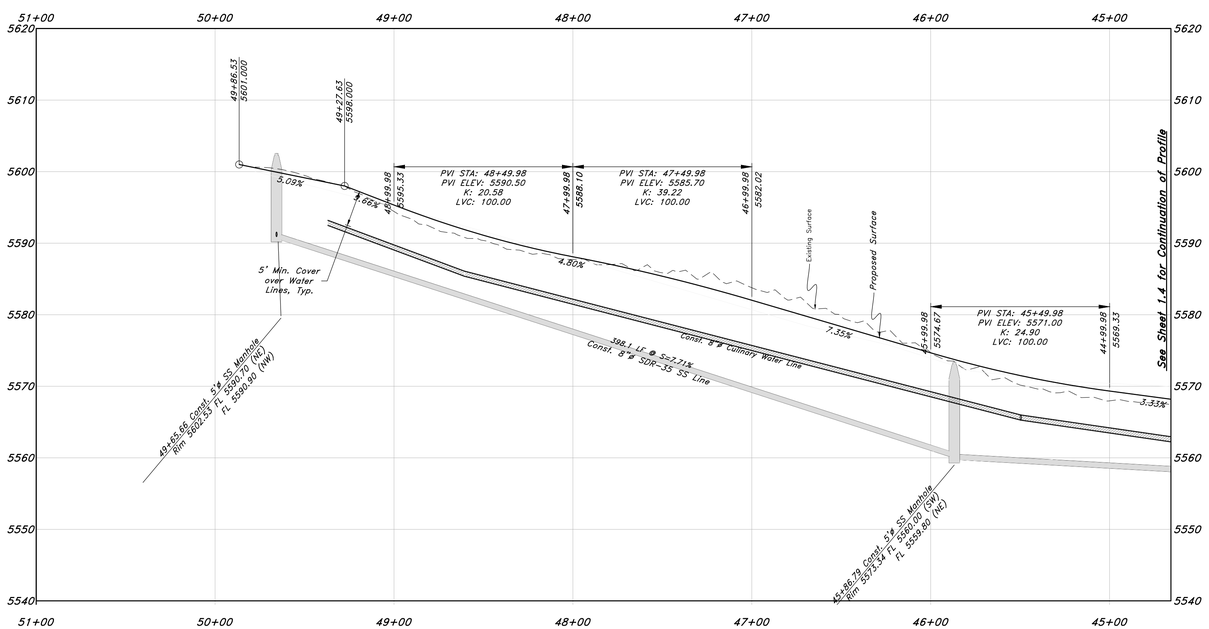
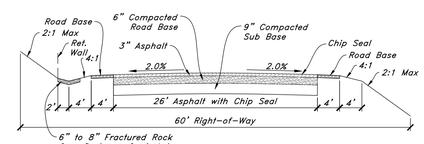


Road Profile Key Map





60' Street Cross Section

(Not to Scale)

REV	DATE	DESCRIPTION

LICENSED PROFESSIONAL ENGINEER No. 166[illegible] MARK FRANKLIN BABBITT STATE OF UTAH

TENTATIVE FINAL

GREAT BASIN ENGINEERING
5746 SOUTH 1475 EAST OGDEN, UTAH 84403
MAIN (801)394-4515 SLC (801)521-0222 FAX (801)392-7544
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Legacy Drive Profile View

Legacy Mountain

11 JUN 2021

SHEET NO.

PP1.5

20N224

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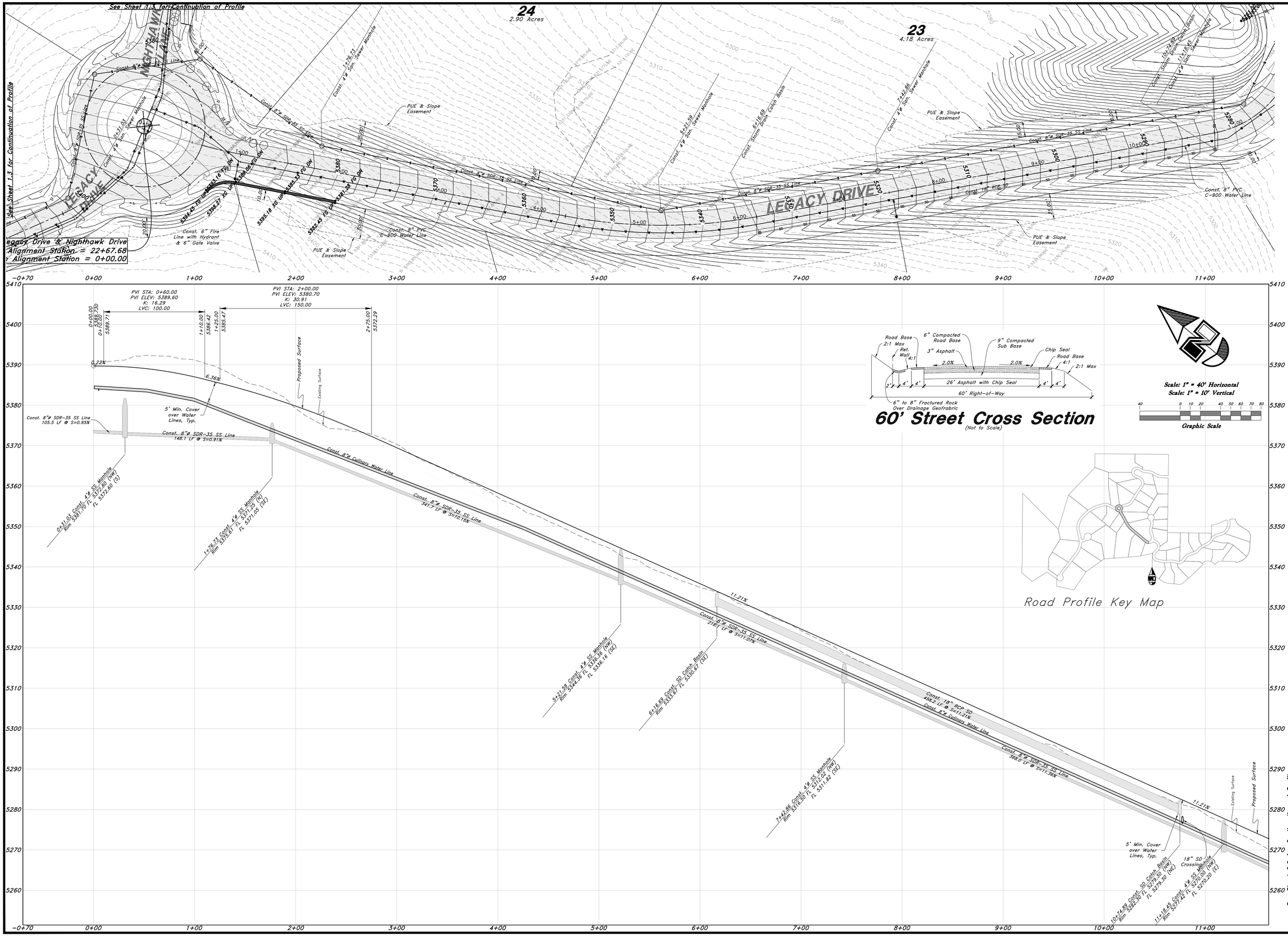

REV	DATE	DESCRIPTION

MARK FRANKLIN BABBITT No. 166400 STATE OF UTAH
TENTATIVE FINAL

GREAT BASIN ENGINEERING
5746 SOUTH 1475 EAST OGDEN, UTAH 84403
MAIN (801)394-4515 S.L.C. (801)521-0222 FAX (801)392-7544
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Legacy Drive Profile View

Legacy Mountain

11 JUN 2021

SHEET NO.

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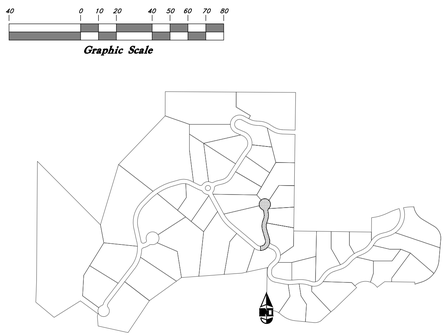
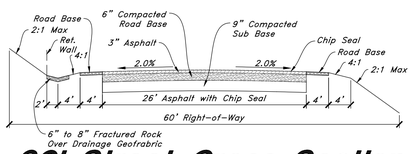
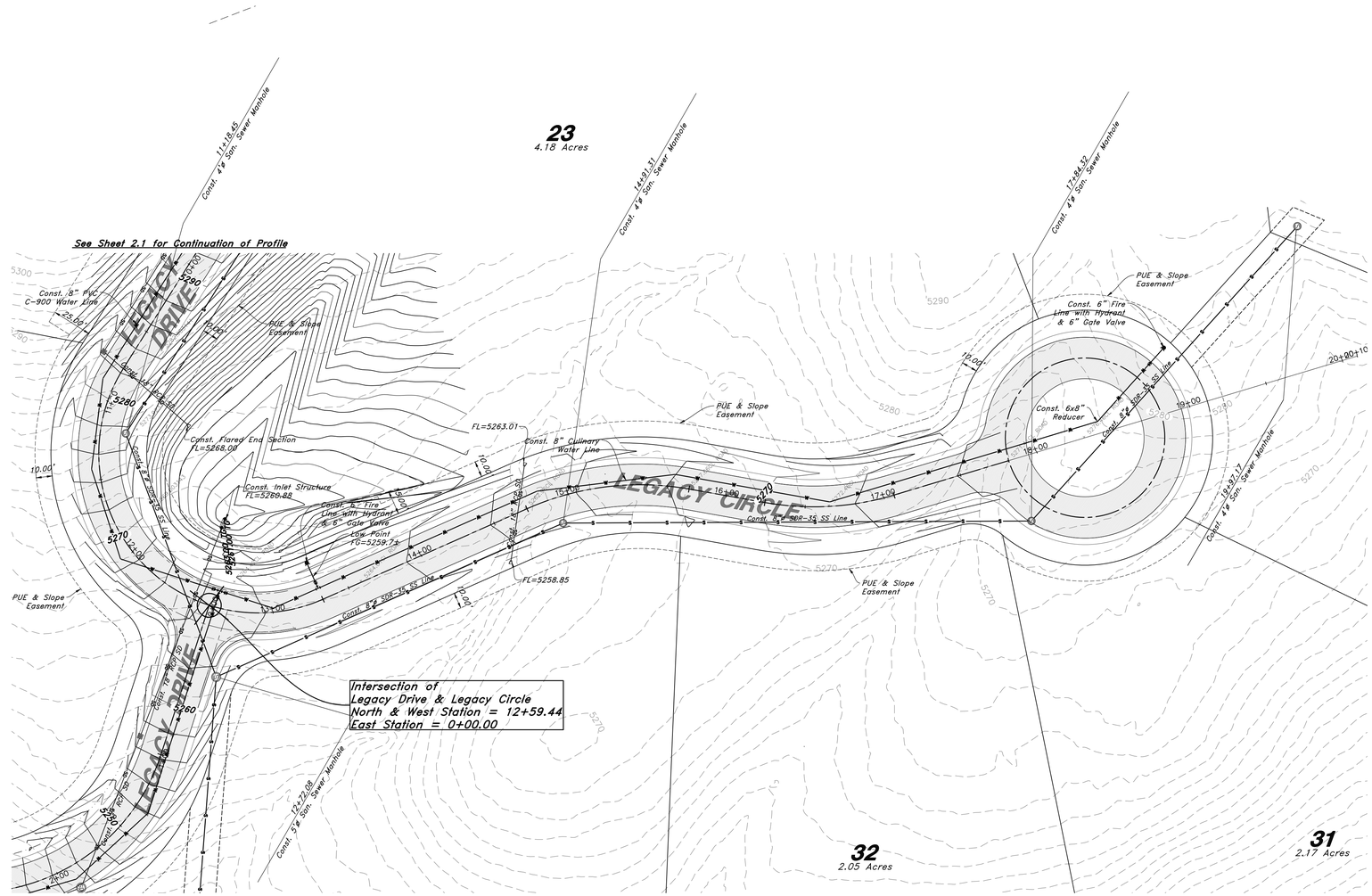


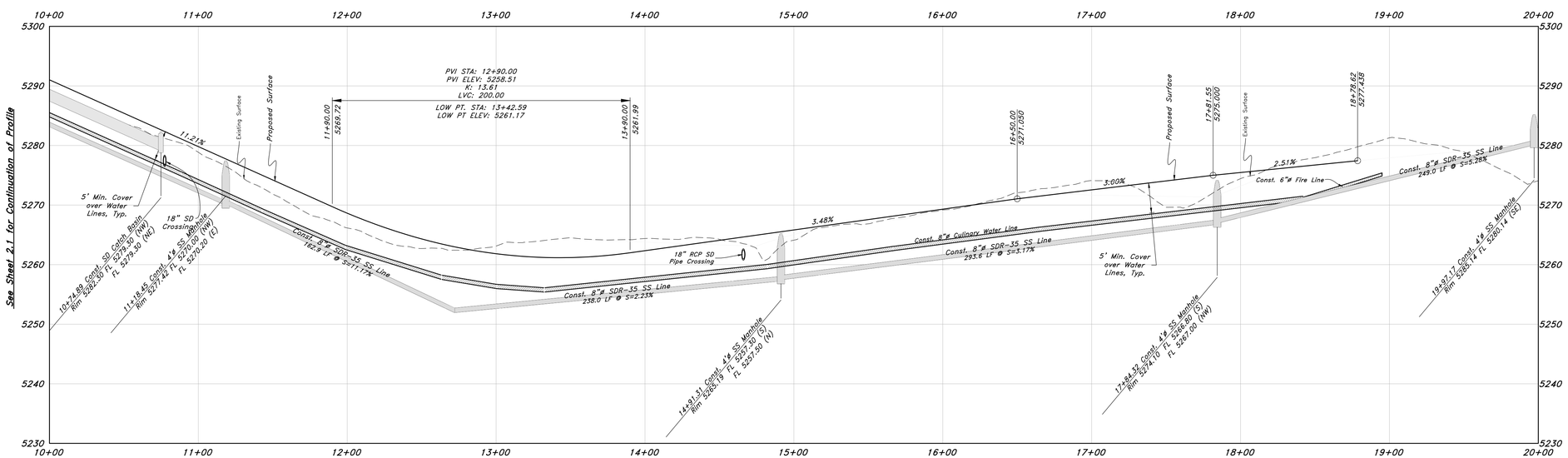
Road Profile Key Map



60' Street Cross Section

(Not to Scale)





REV	DATE	DESCRIPTION

TENTATIVE FINAL

MARK FRANCIS BABBITT
No. 166447
STATE OF UTAH

GREAT BASIN ENGINEERING
5746 SOUTH 1475 EAST OGDEN, UTAH 84403
MAIN (801)394-4515 SLC (801)521-0222 FAX (801)392-7544
WWW.GREATBASINENGINEERING.COM

Legacy Drive & Legacy Circle

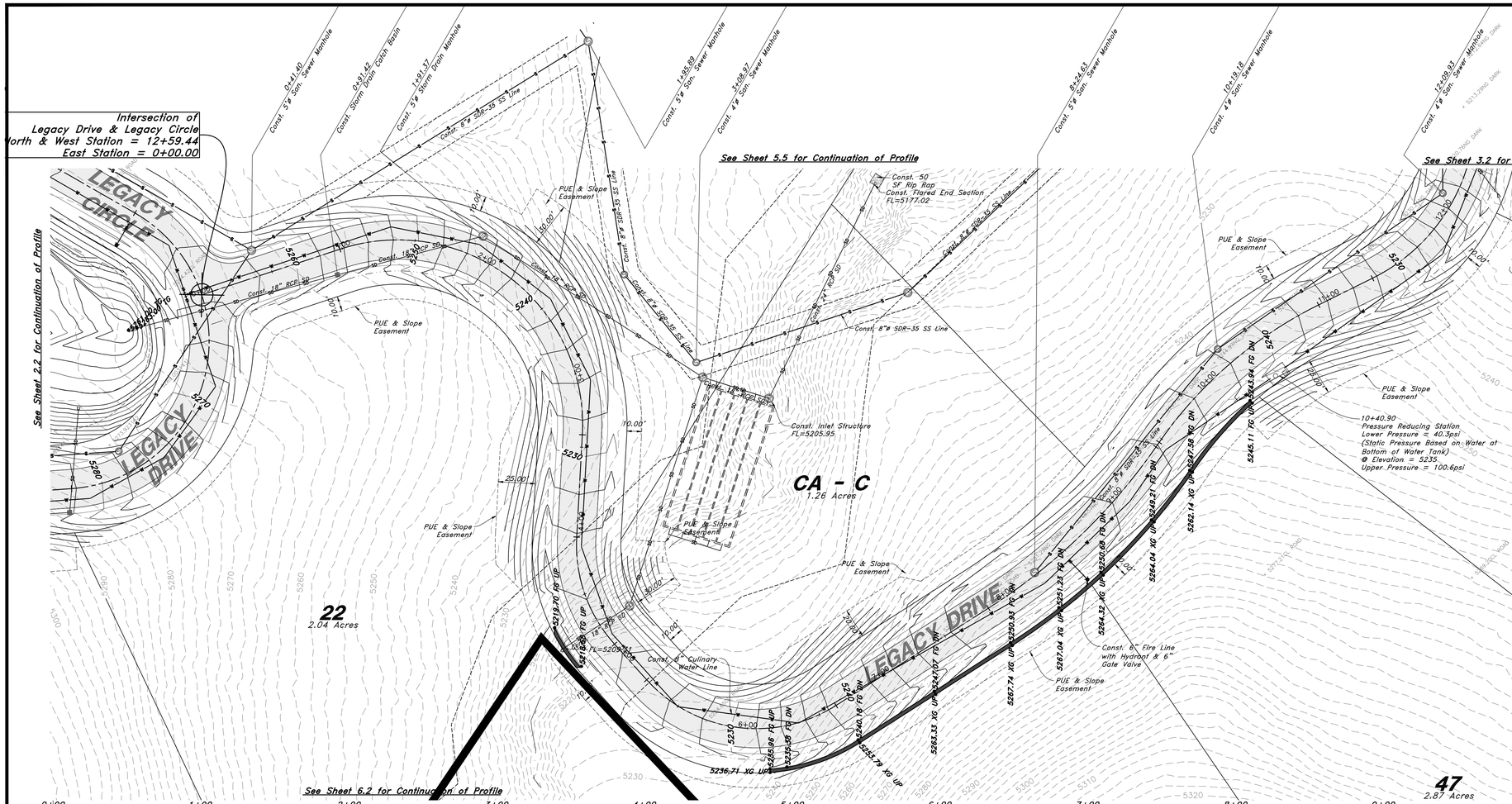
Legacy Mountain

11 JUN 2021

SHEET NO.
PP2.2

20N224

Intersection of
Legacy Drive & Legacy Circle
North & West Station = 12+59.44
East Station = 0+00.00



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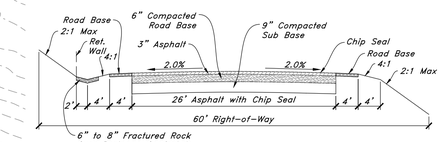
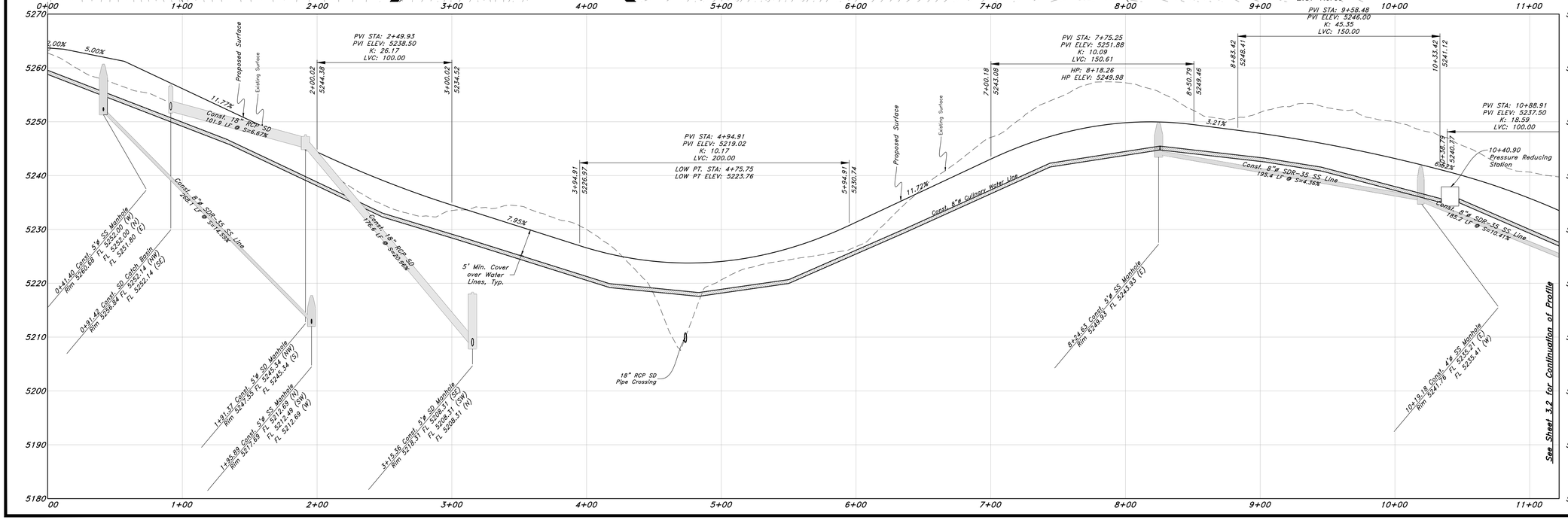


60' Street Cross Section

(Not to Scale)

Road Profile Key Map



REV	DATE	DESCRIPTION

TENTATIVE FINAL

GREAT BASIN ENGINEERING
5746 SOUTH 1475 EAST OGDEN, UTAH 84403
MAIN (801)394-4515 FAX (801)392-7544
WWW.GREATBASINENGINEERING.COM

Legacy Drive

Legacy Mountain

11 JUN 2021

SHEET NO.

PP3.1

20N224

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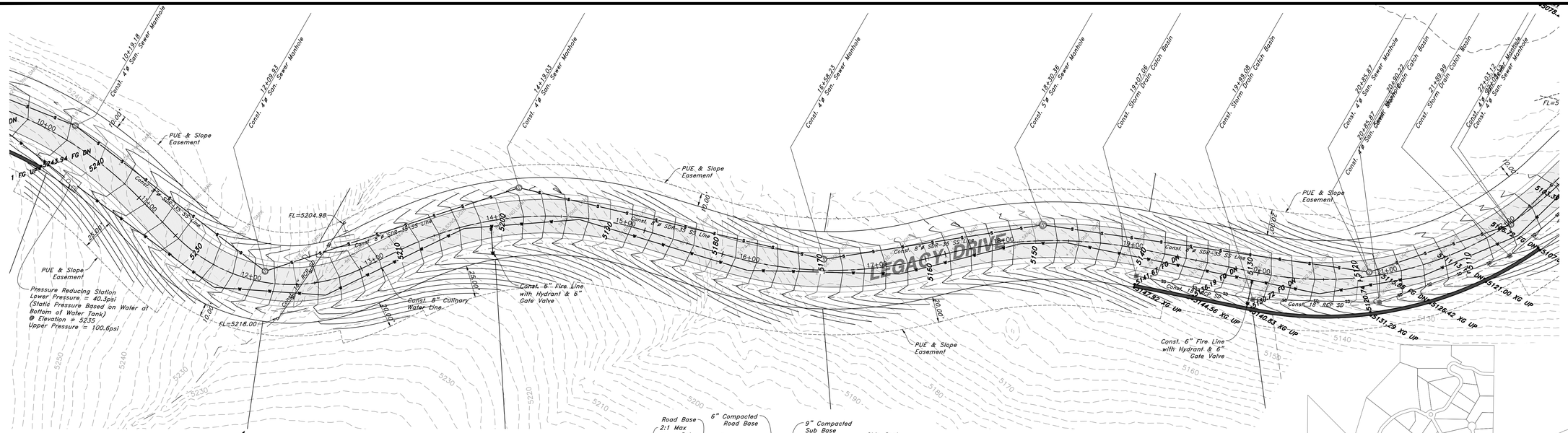
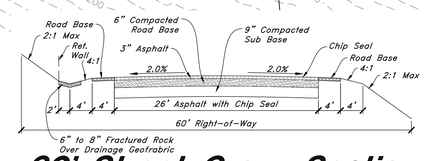
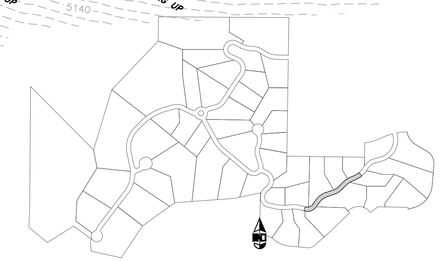


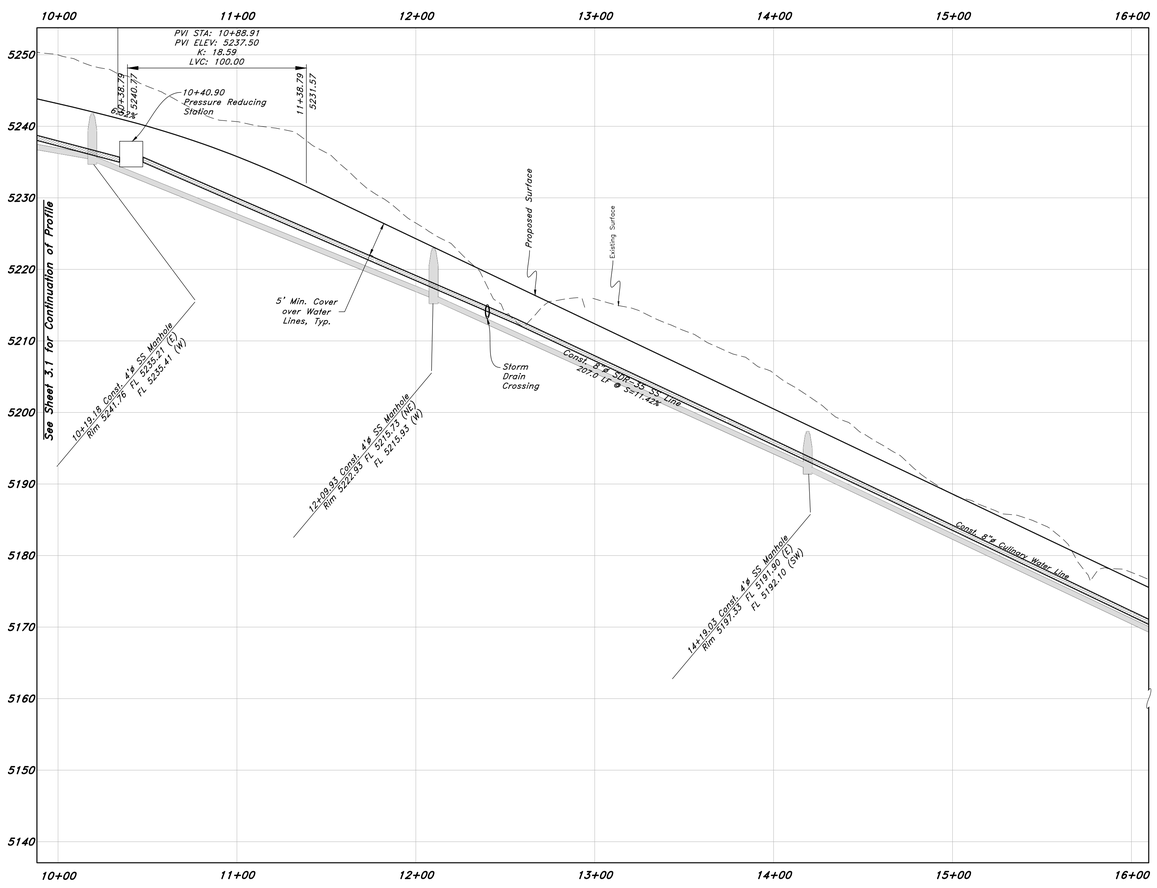


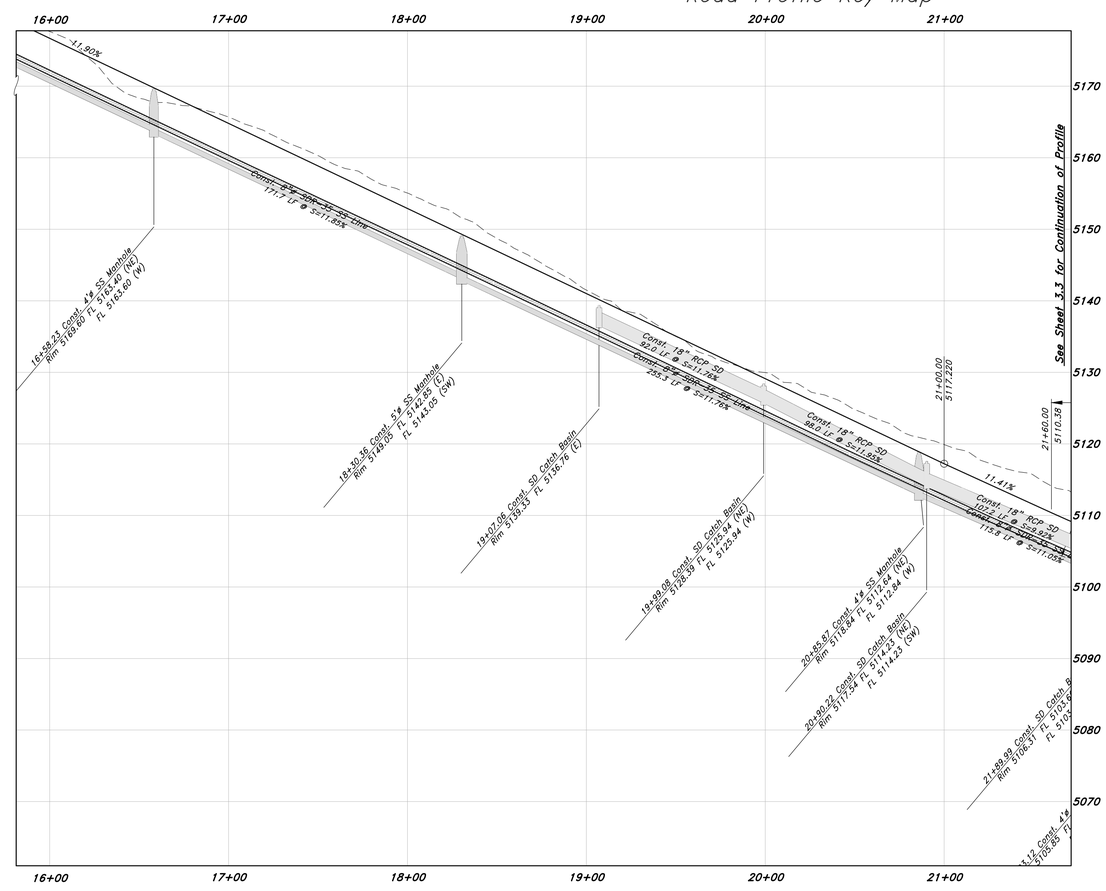
60' Street Cross Section

(Not to Scale)



Road Profile Key Map





REV	DATE	DESCRIPTION

TENTATIVE FINAL

GREAT BASIN ENGINEERING
5746 SOUTH 1475 EAST OGDEN, UTAH 84403
MAIN (801)394-4515 SLC (801)521-0222 FAX (801)392-7544
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Legacy Drive

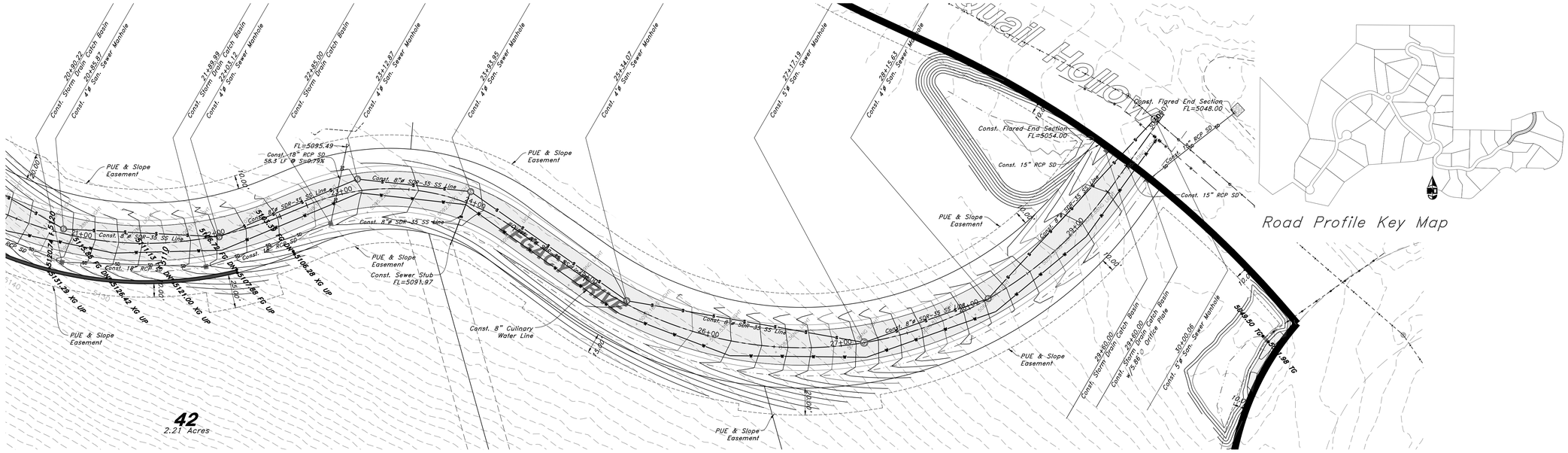
Legacy Mountain

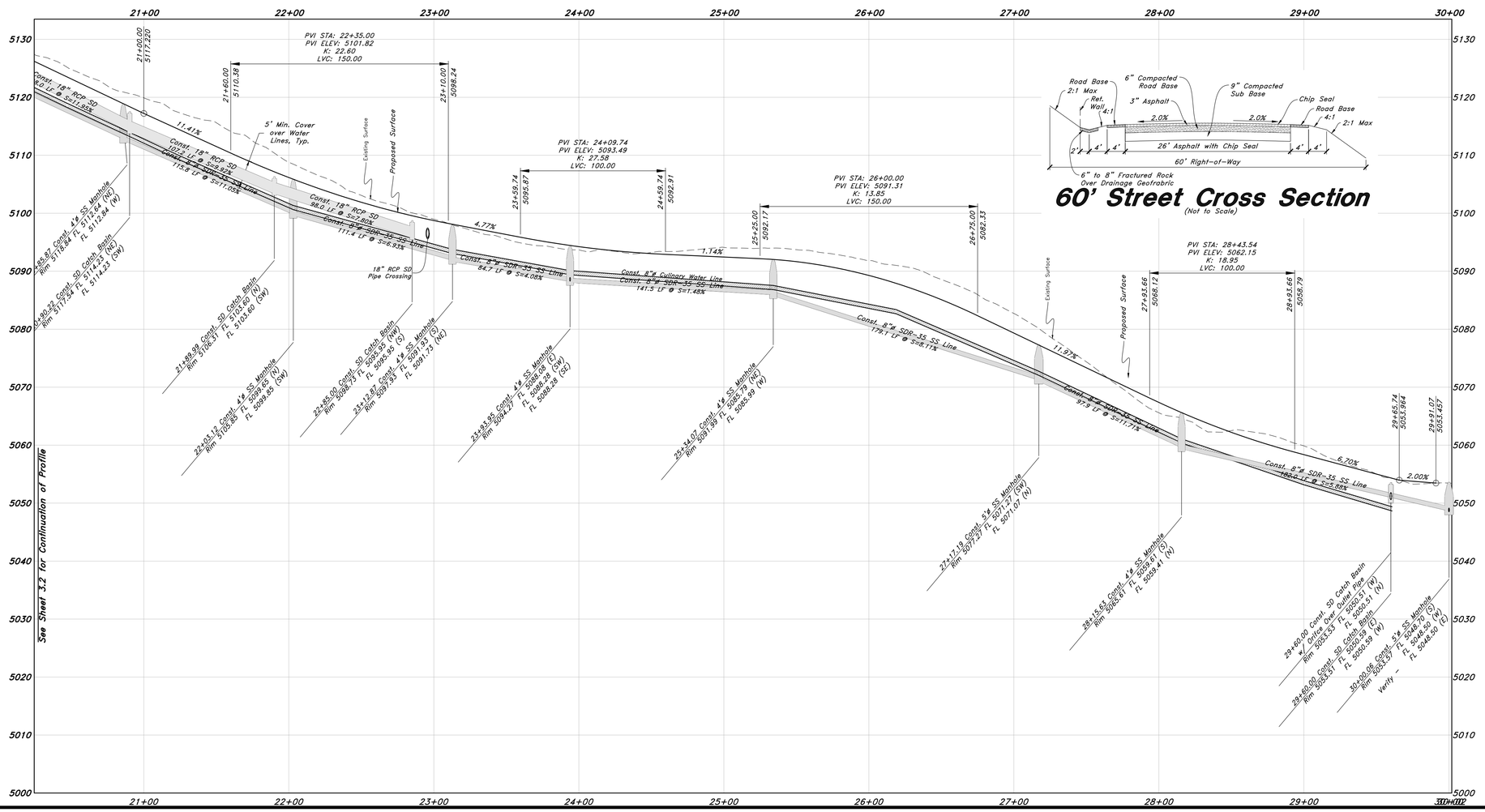
11 JUN 2021

SHEET NO.

PP3.2

20N224





60' Street Cross Section

(Not to Scale)

Scale: 1" = 40' Horizontal
Scale: 1" = 10' Vertical

Graphic Scale

REV	DATE	DESCRIPTION

TENTATIVE FINAL

GREAT BASIN ENGINEERING

574 S. SOUTH 1475 EAST, OGDEN, UTAH 84403
MAIN (801)394-4515 SLC (801)521-0222 FAX (801)392-7544
WWW.GREATBASINENGINEERING.COM

Legacy Drive

Legacy Mountain

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SHEET NO.

PP3.3

20N224

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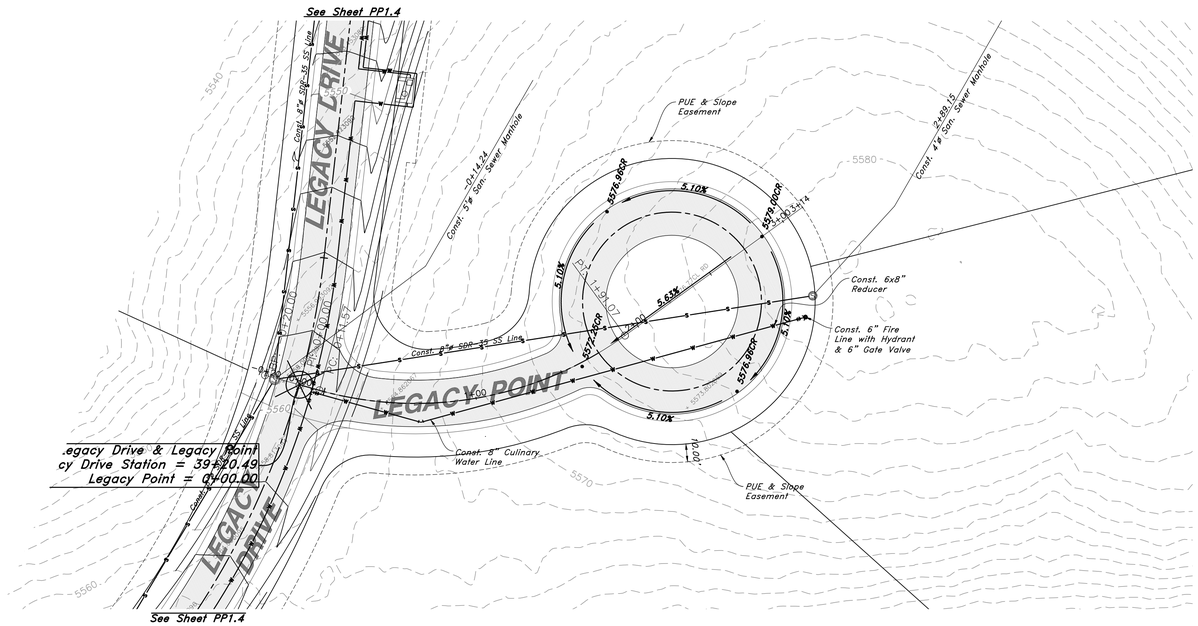
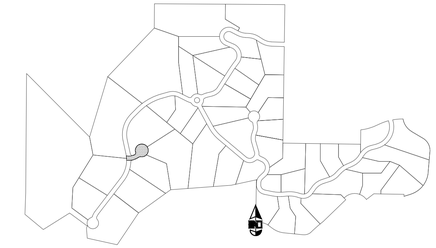
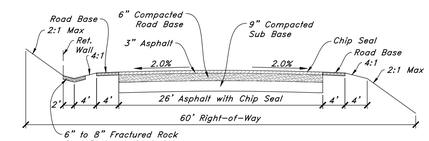
Graphic Scale



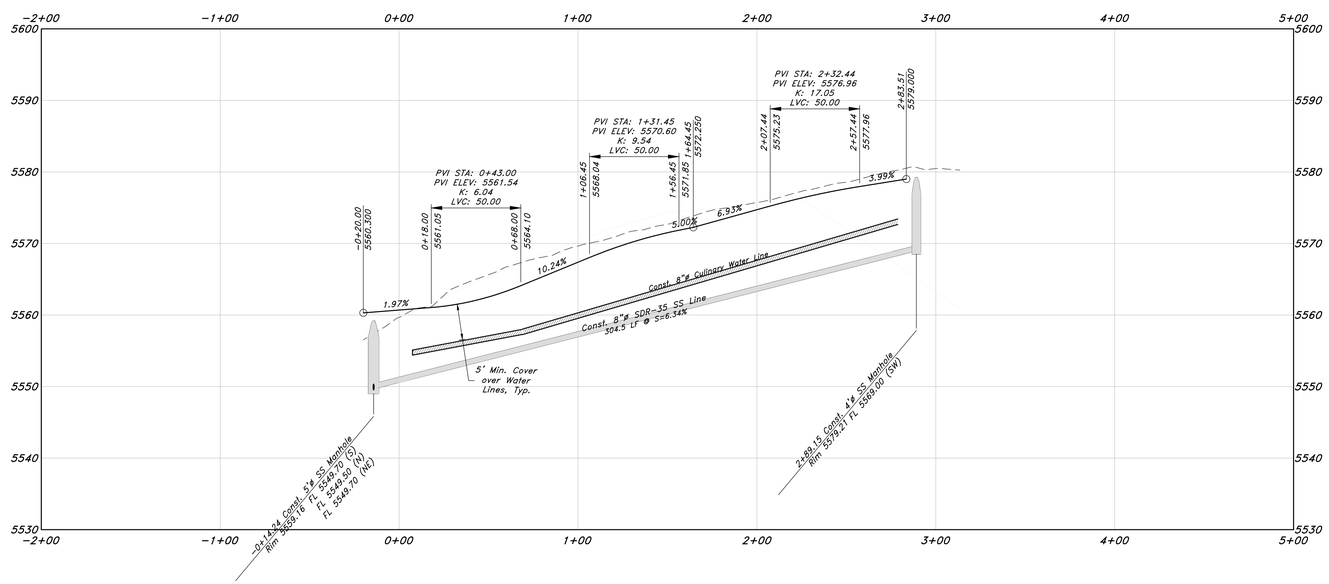


Road Profile Key Map



60' Street Cross Section

(Not to Scale)



REV	DATE	DESCRIPTION

MERIDIAN PROFESSIONAL ENGINEER
No. 166447
MARK FRANKLIN BABBITT
STATE OF UTAH
TENTATIVE FINAL

GREAT BASIN ENGINEERING
5746 SOUTH 1475 EAST OGDEN, UTAH 84403
MAIN (801)394-4515 SLC (801)521-0222 FAX (801)392-7544
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Legacy Point

Legacy Mountain

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SHEET NO.

PP4.1

20N224

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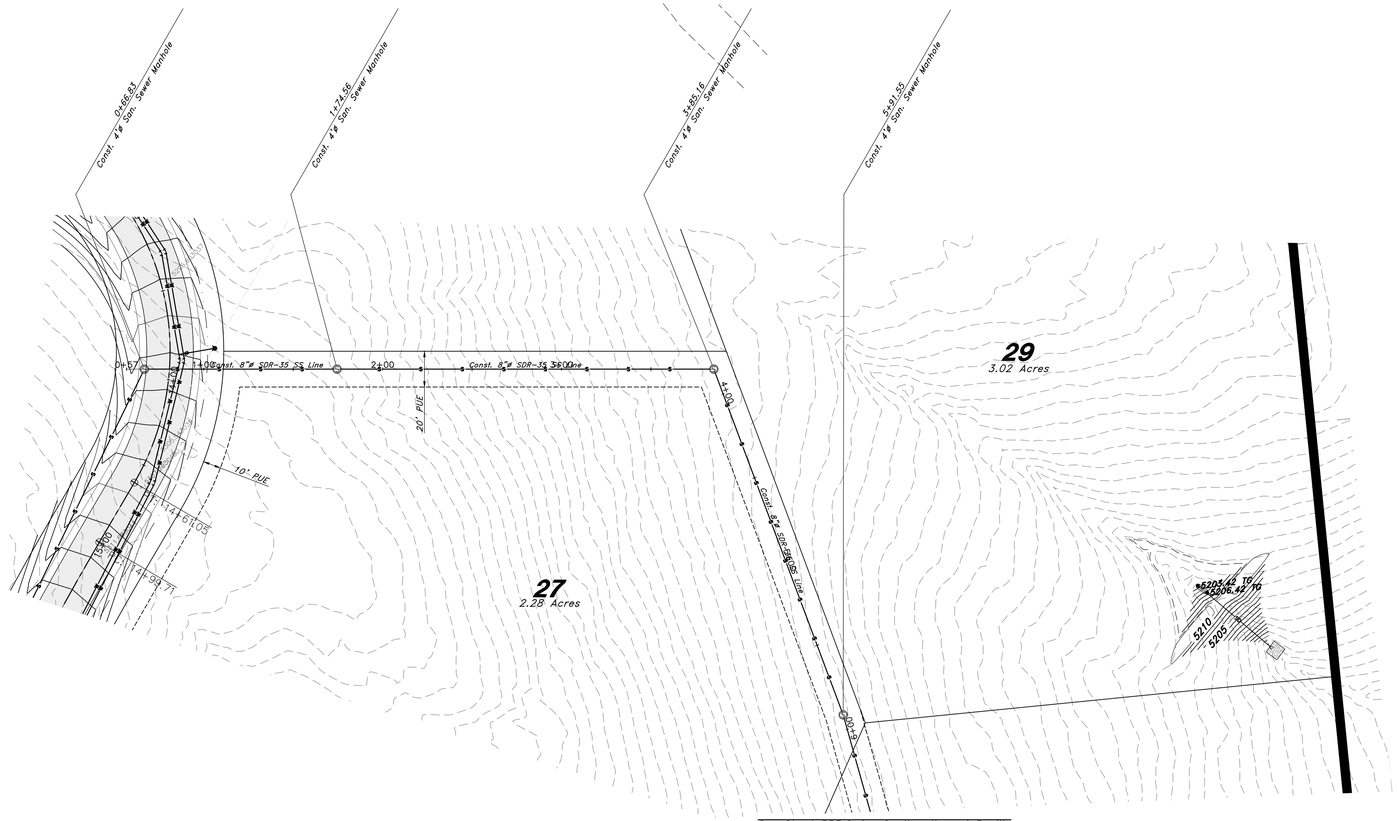
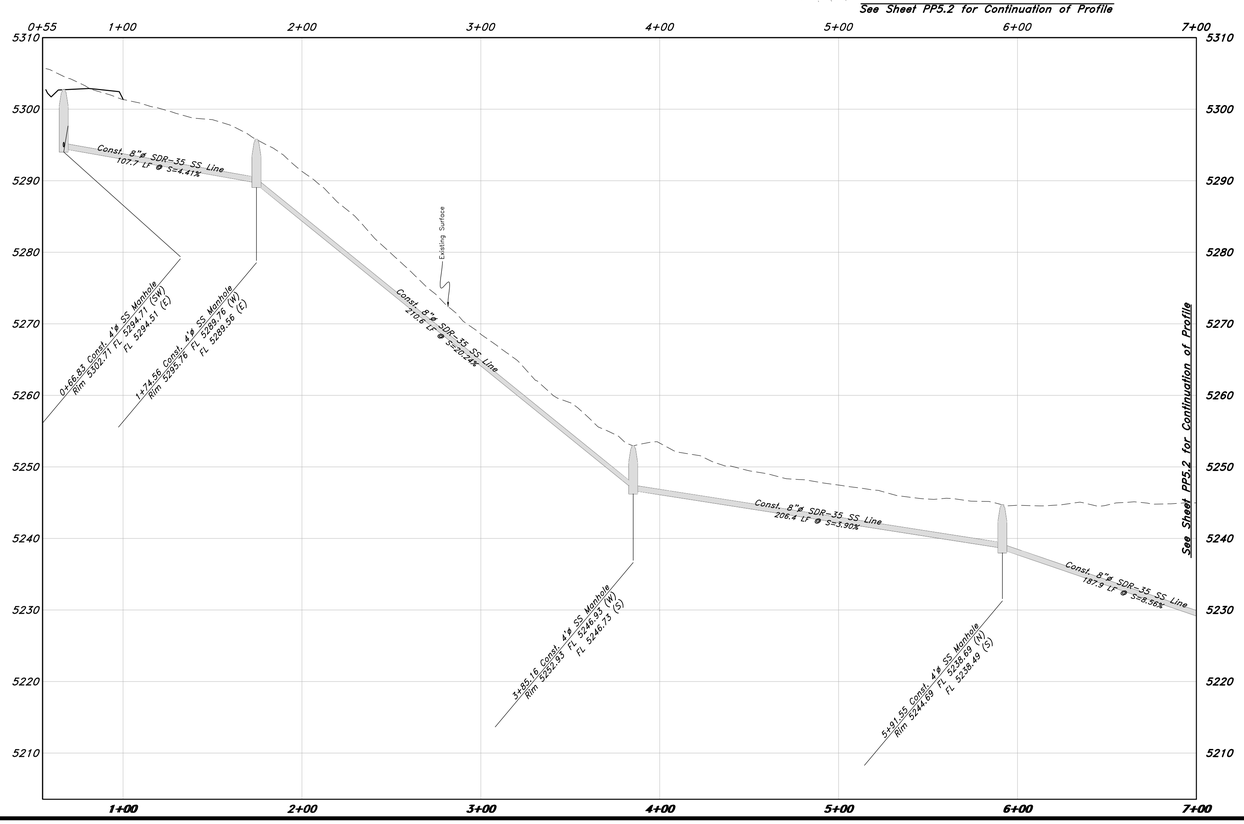
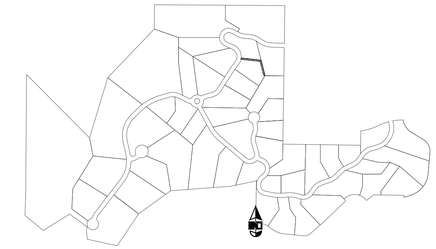
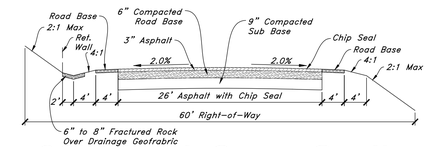


See Sheet PP5.2 for Continuation of Profile





Road Profile Key Map



60' Street Cross Section

(Not to Scale)

REV	DATE	DESCRIPTION

LICENSED PROFESSIONAL ENGINEER No. 166[illegible] MARK FRANCIS BABALIS STATE OF UTAH

TENTATIVE FINAL

GREAT BASIN ENGINEERING
5746 SOUTH 1475 EAST OGDEN, UTAH 84403
MAIN (801)394-4515 S.L.C. (801)521-0222 FAX (801)392-7544
WWW.GREATBASINENGINEERING.COM

Back Lot Sewer Profile View

Legacy Mountain

11 JUN 2021

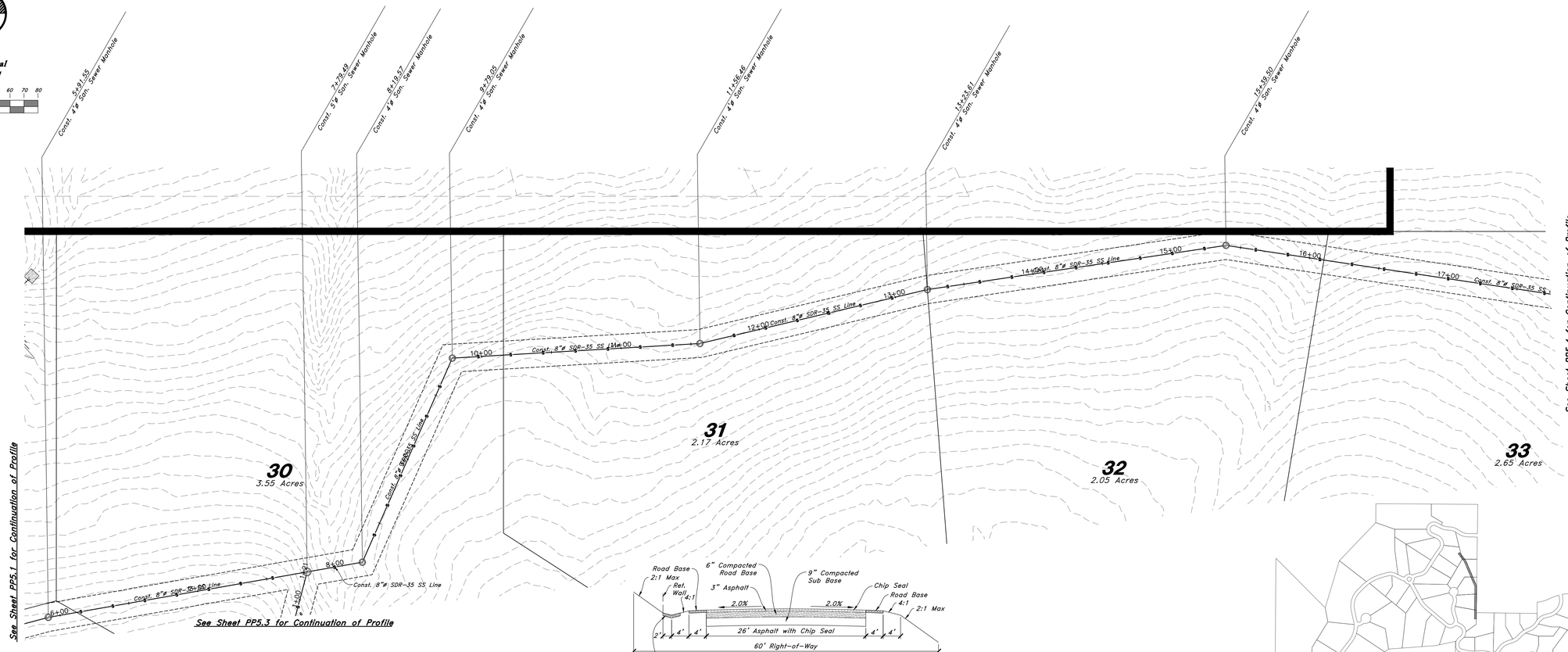
SHEET NO.

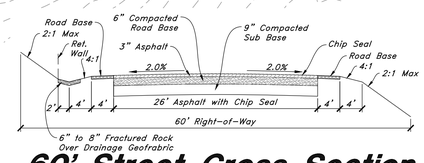
PP5.1

20N224

Scale: 1" = 40' Horizontal
Scale: 1" = 10' Vertical

Graphic Scale

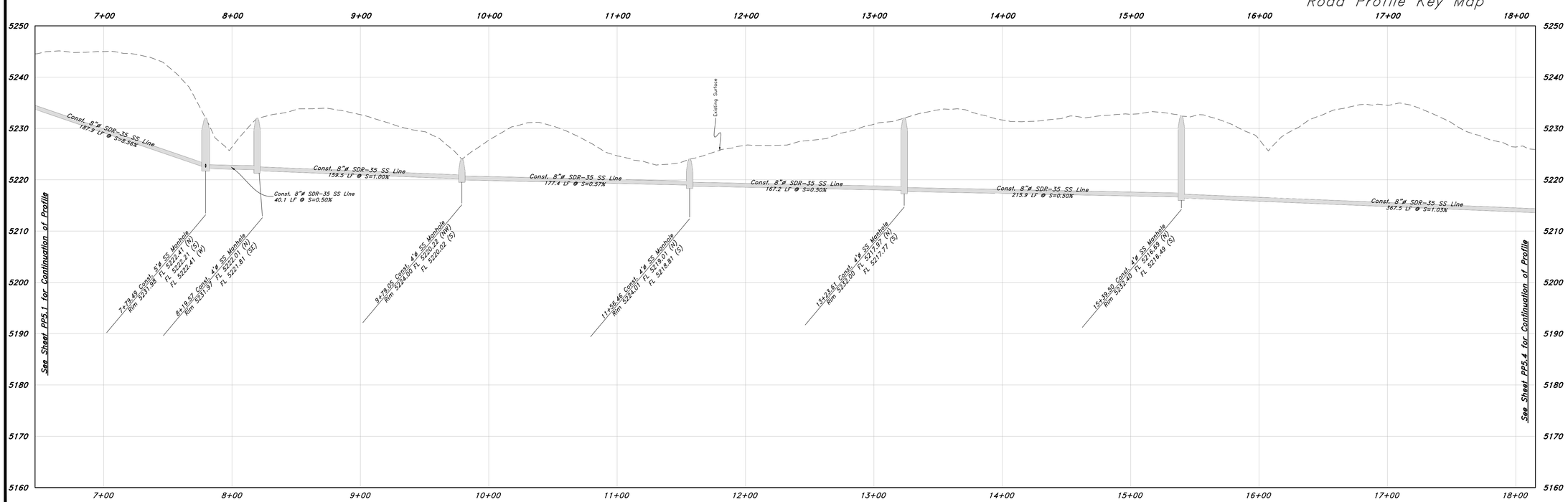




60' Street Cross Section

(Not to Scale)

Road Profile Key Map



REV	DATE	DESCRIPTION

MERIDIAN PROFESSIONAL ENGINEER
No. 166[illegible]
MARK FRANKE BARNETT
STATE OF UTAH
TENTATIVE FINAL

GREAT BASIN ENGINEERING
5746 SOUTH 1475 EAST OGDEN, UTAH 84403
MAIN (801)394-4515 SLC (801)521-0222 FAX (801)392-7544
WWW.GREATBASINENGINEERING.COM

Back Lot Sewer Profile View

Legacy Mountain

11 JUN 2021

SHEET NO.

PP5.2

20N224

Scale: 1" = 40' Horizontal
Scale: 1" = 10' Vertical

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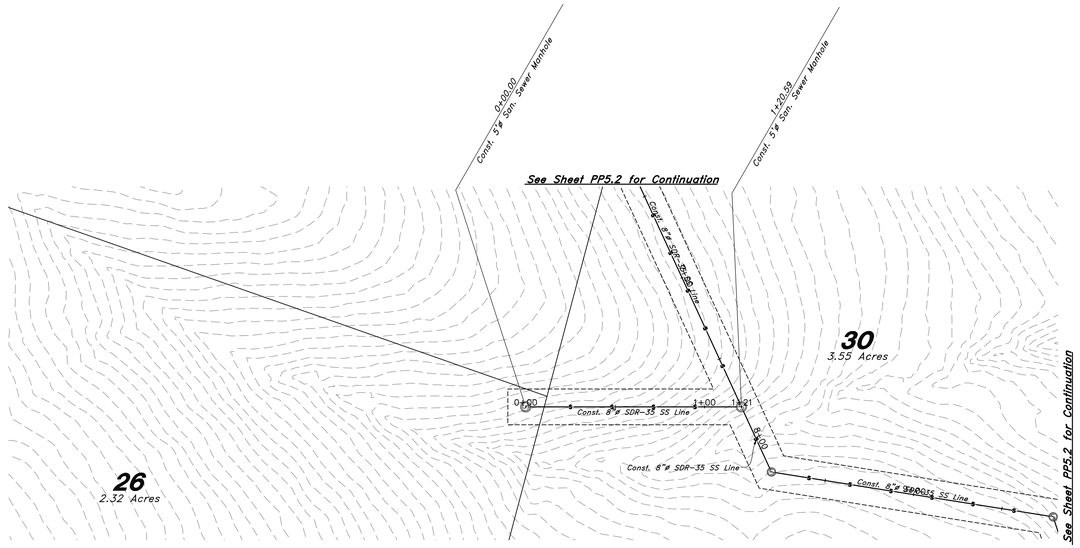
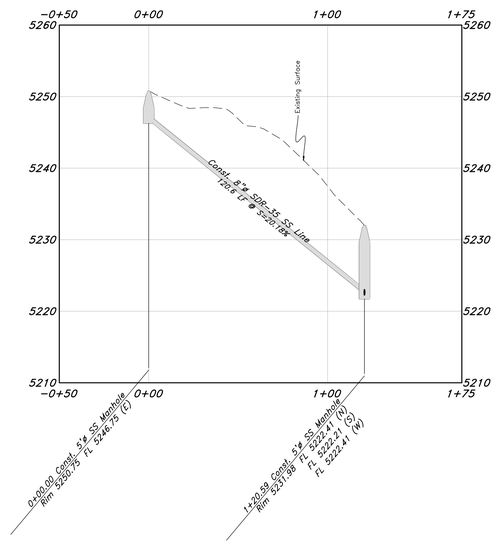
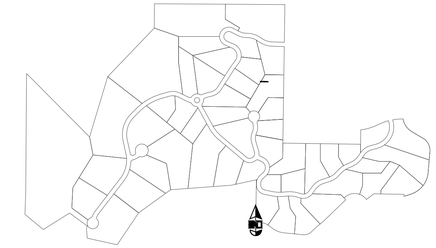
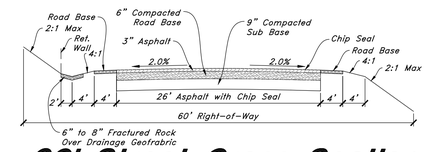
Graphic Scale







Road Profile Key Map



60' Street Cross Section

(Not to Scale)

REV	DATE	DESCRIPTION

LICENSED PROFESSIONAL ENGINEER
No. 166400
MARK FRANCIS BABBITT
STATE OF UTAH
TENTATIVE FINAL

GREAT BASIN ENGINEERING
574 S OUTH 1475 E AST OGDEN, UTAH 84403
MAIN (801)394-4515 S.L.C (801)521-0222 FAX (801)392-7544
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Back Lot Sewer Profile View

Legacy Mountain

11 JUN 2021

SHEET NO.

PP5.3

20N224

Scale: 1" = 40' Horizontal
Scale: 1" = 10' Vertical

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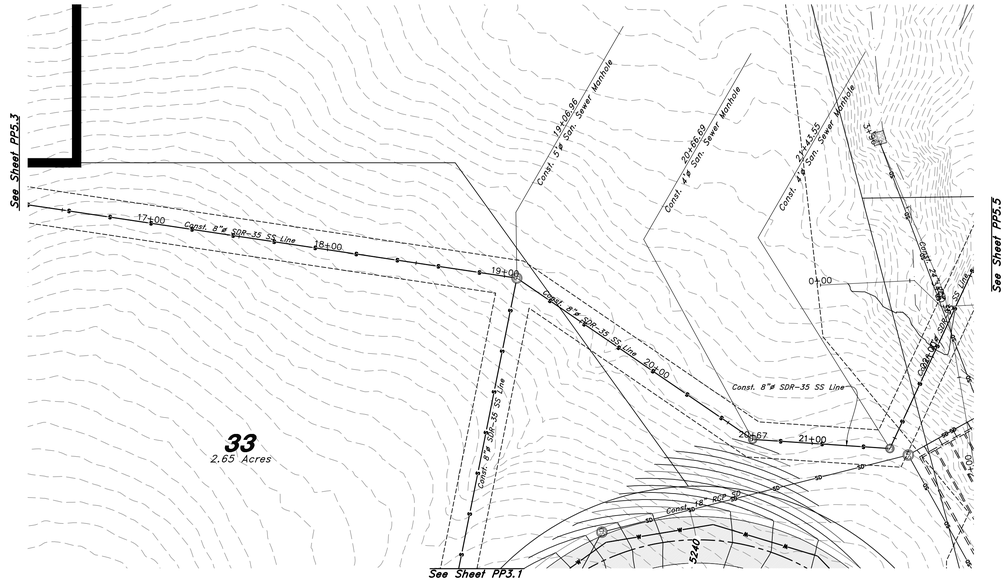
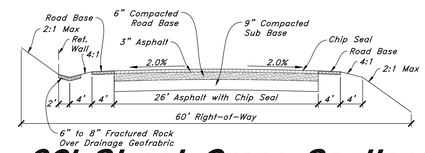
Graphic Scale

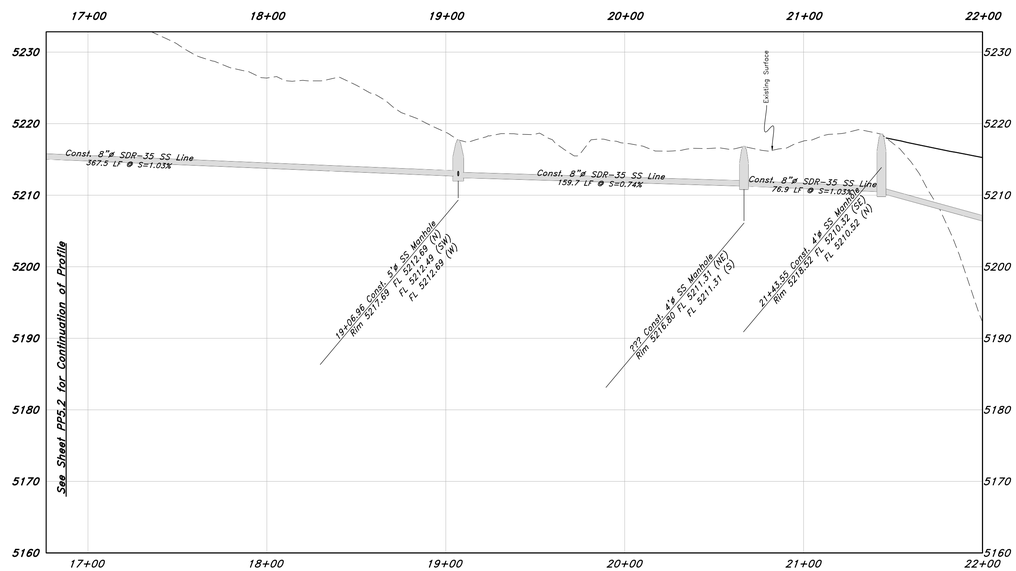


Road Profile Key Map



60' Street Cross Section

(Not to Scale)



REV	DATE	DESCRIPTION

MARK FRANCIS BABALIS
No. 166400
STATE OF UTAH
TENTATIVE FINAL

GREAT BASIN ENGINEERING
5746 SOUTH 1475 EAST OGDEN, UTAH 84403
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Back Lot Sewer Profile View

Legacy Mountain

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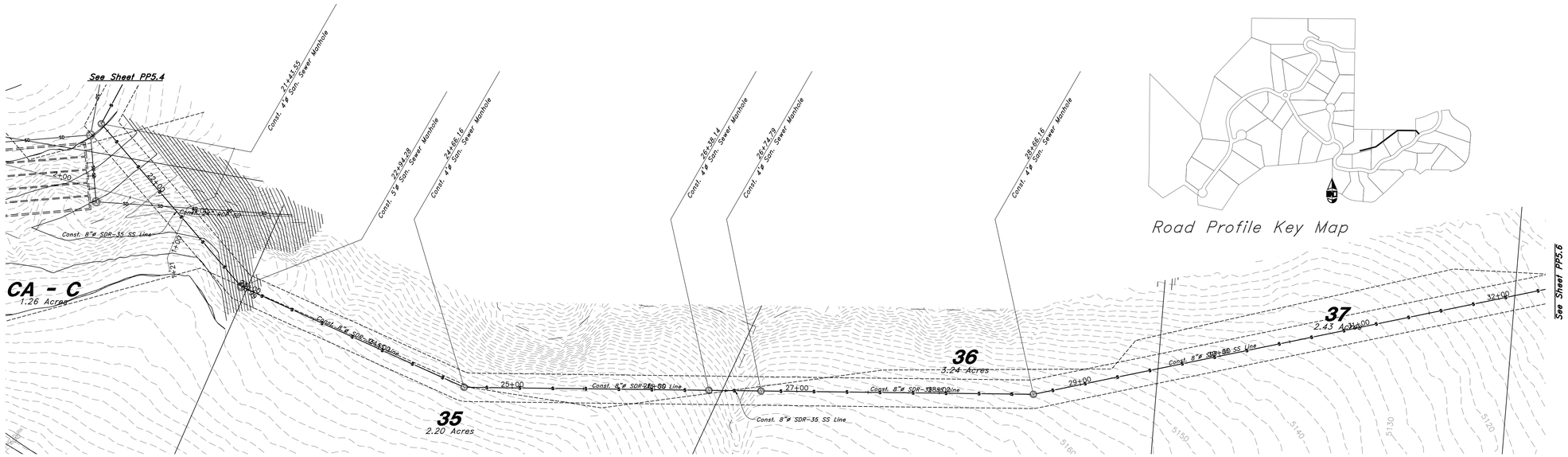
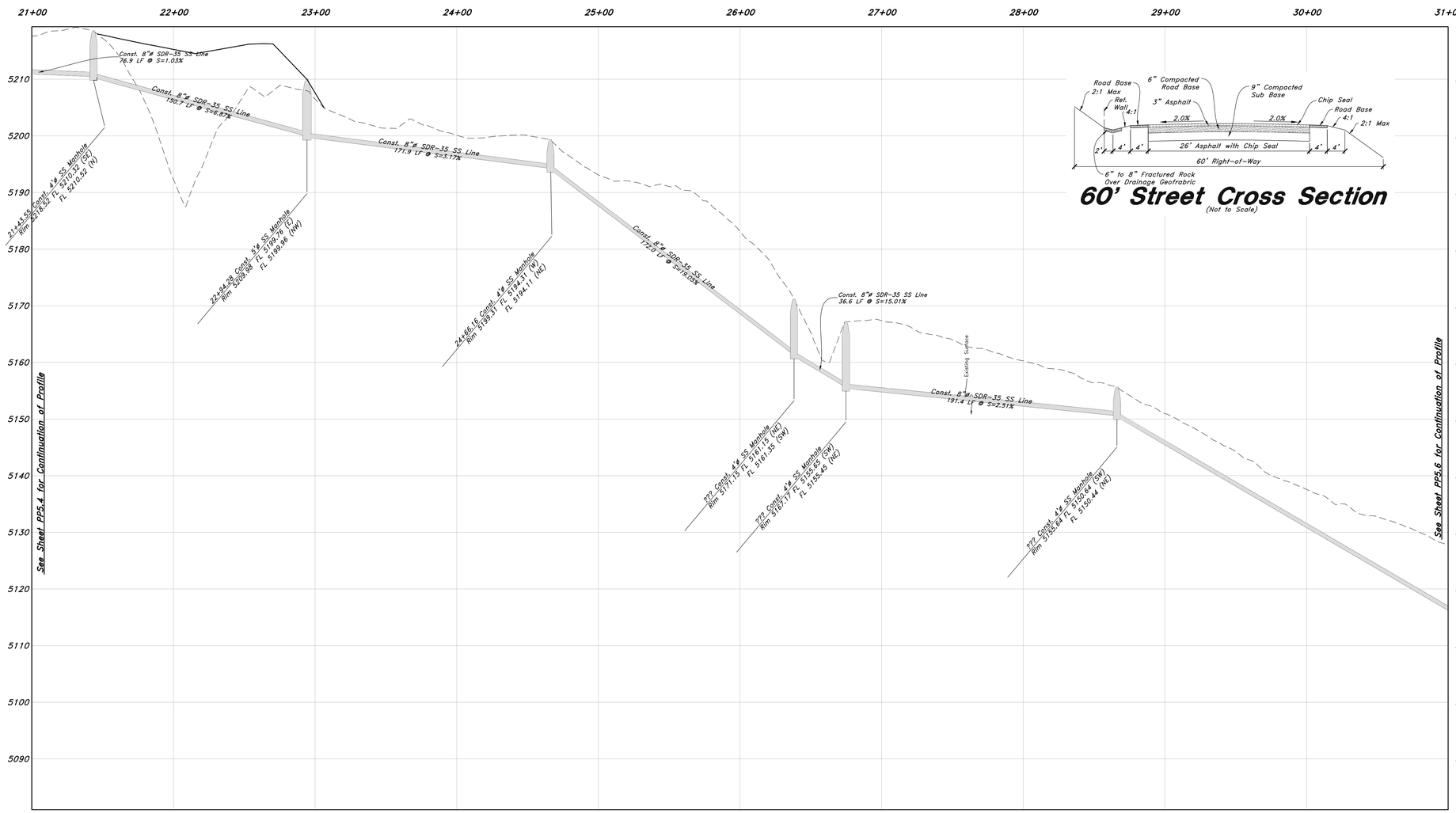
SHEET NO.
PP5.4

20N224





60' Street Cross Section

(Not to Scale)

Scale: 1" = 40' Horizontal
Scale: 1" = 10' Vertical

Graphic Scale

REV	DATE	DESCRIPTION

TENTATIVE FINAL

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574 S 1475 E, SPRINGVILLE, UT 84663
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Back Lot Sewer Profile View

Legacy Mountain

11 JUN 2021

SHEET NO.

PP5.5

20N224

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Scale: 1" = 10' Vertical

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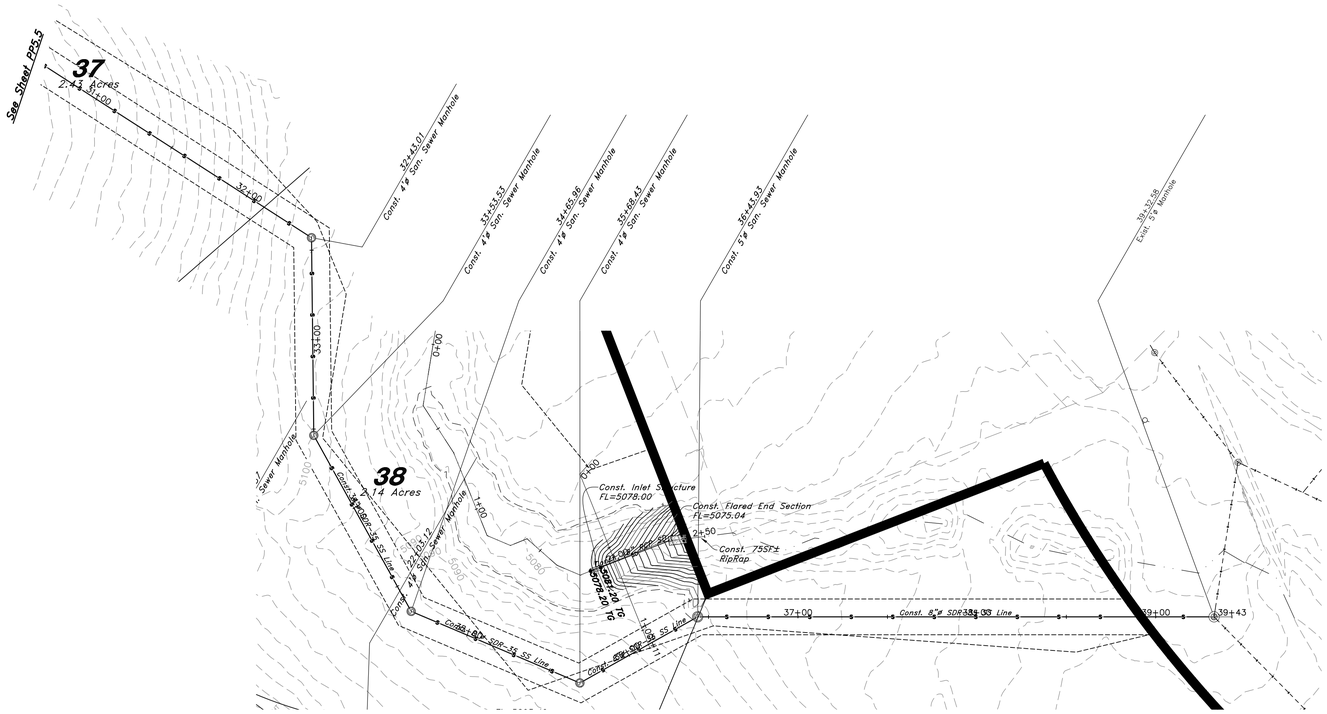
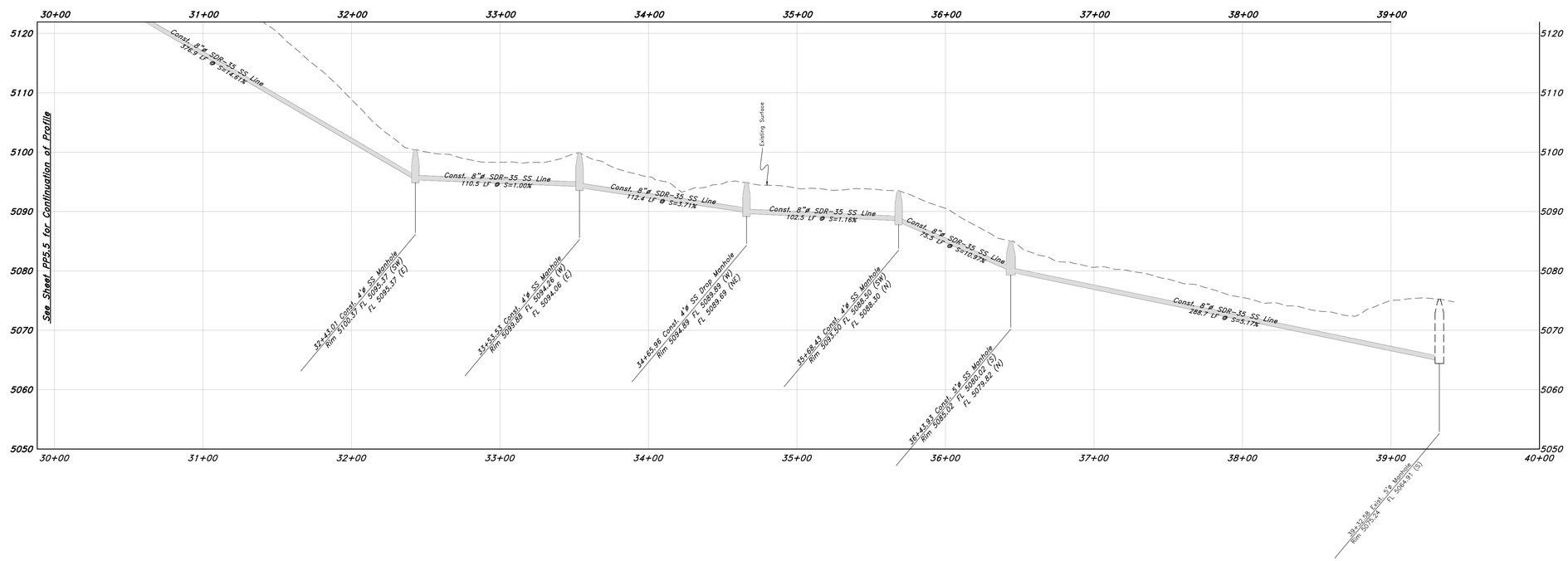
Graphic Scale



Road Profile Key Map



REV	DATE	DESCRIPTION

MERIDIAN PROFESSIONAL ENGINEER
No. 166447
MARK FRANCIS BABBITT
STATE OF UTAH
TENTATIVE FINAL

GREAT BASIN ENGINEERING
5746 SOUTH 1475 EAST OGDEN, UTAH 84403
MAIN (801)394-4515 SLC (801)521-0222 FAX (801)392-7544
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Back Lot Sewer Profile View

Legacy Mountain

11 JUN 2021

SHEET NO.
PP5.6

20N224

Scale: 1" = 40' Horizontal
Scale: 1" = 10' Vertical

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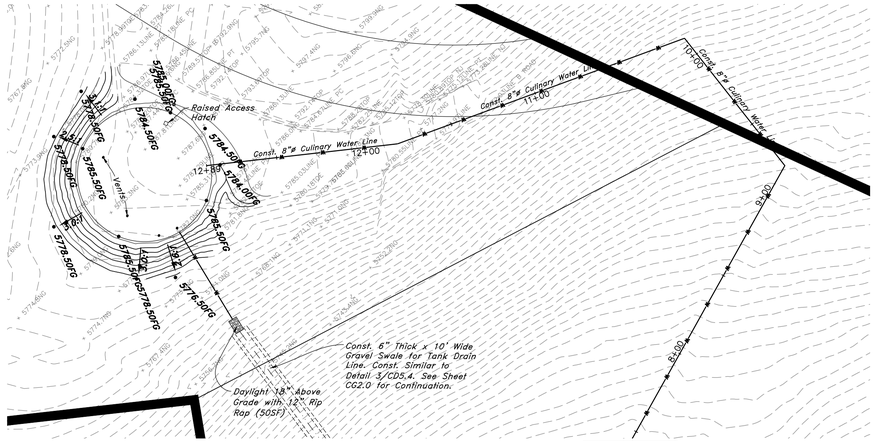
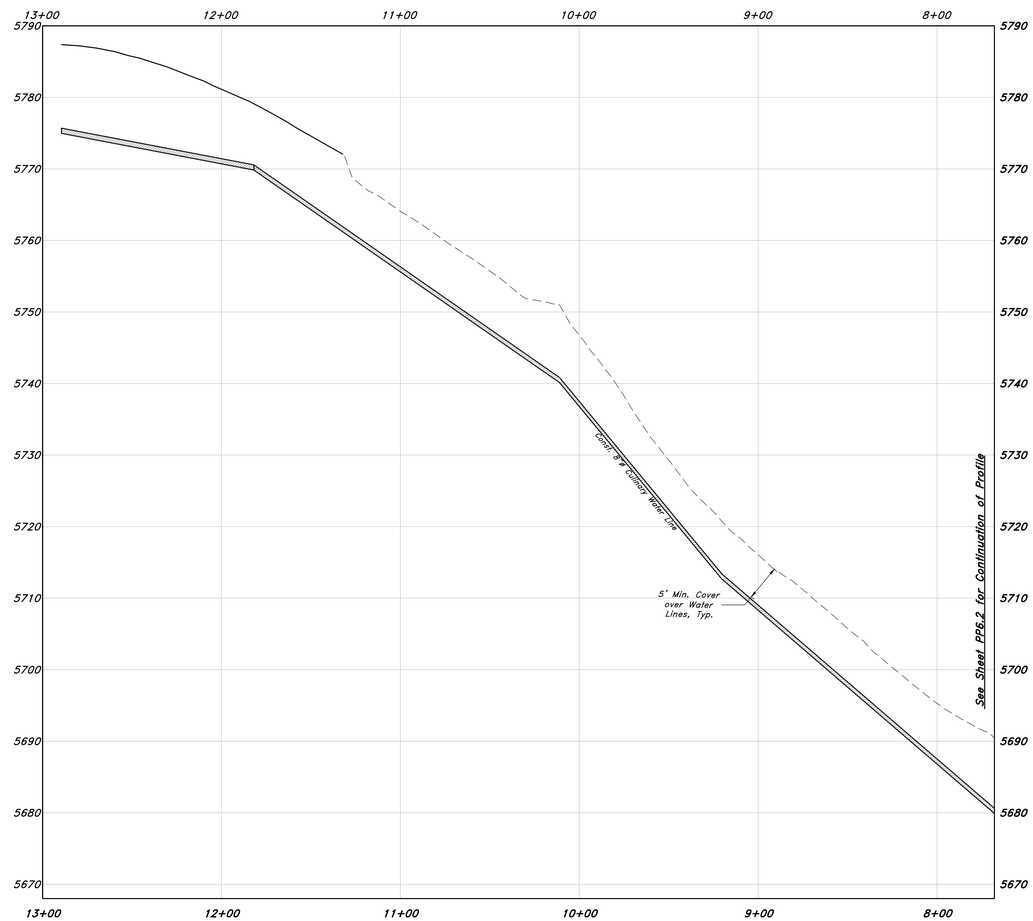
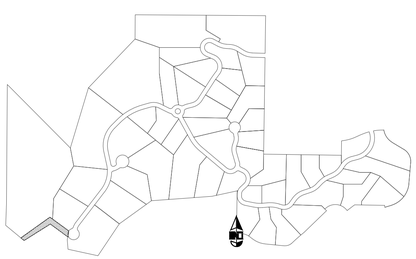
Graphic Scale







Road Profile Key Map

REV	DATE	DESCRIPTION

LICENSED PROFESSIONAL ENGINEER
No. 166447
MARK FRANKLIN BARNETT
STATE OF UTAH
TENTATIVE FINAL

GREAT BASIN ENGINEERING
5746 SOUTH 1475 EAST OGDEN, UTAH 84403
MAIN (801)394-4515 SLC (801)521-0222 FAX (801)392-7544
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Sewer & Water Profile View

Legacy Mountain

11 JUN 2021

SHEET NO.
PP6.1

20N224

Scale: 1" = 40' Horizontal
Scale: 1" = 10' Vertical

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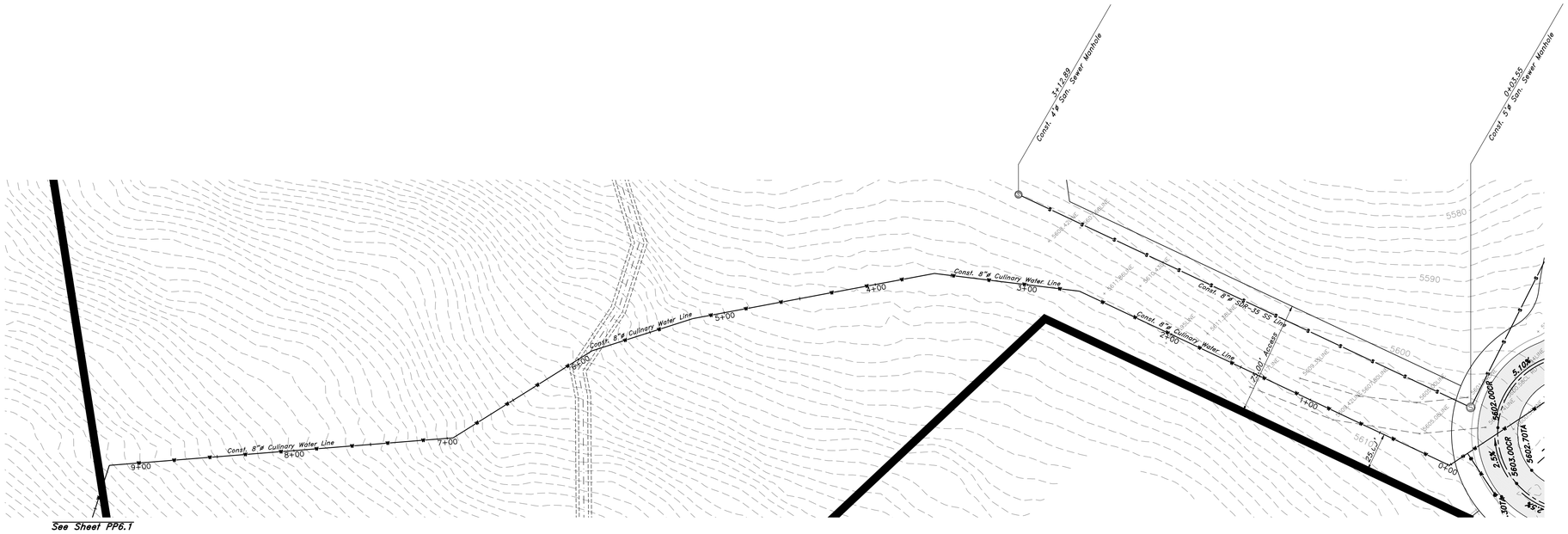
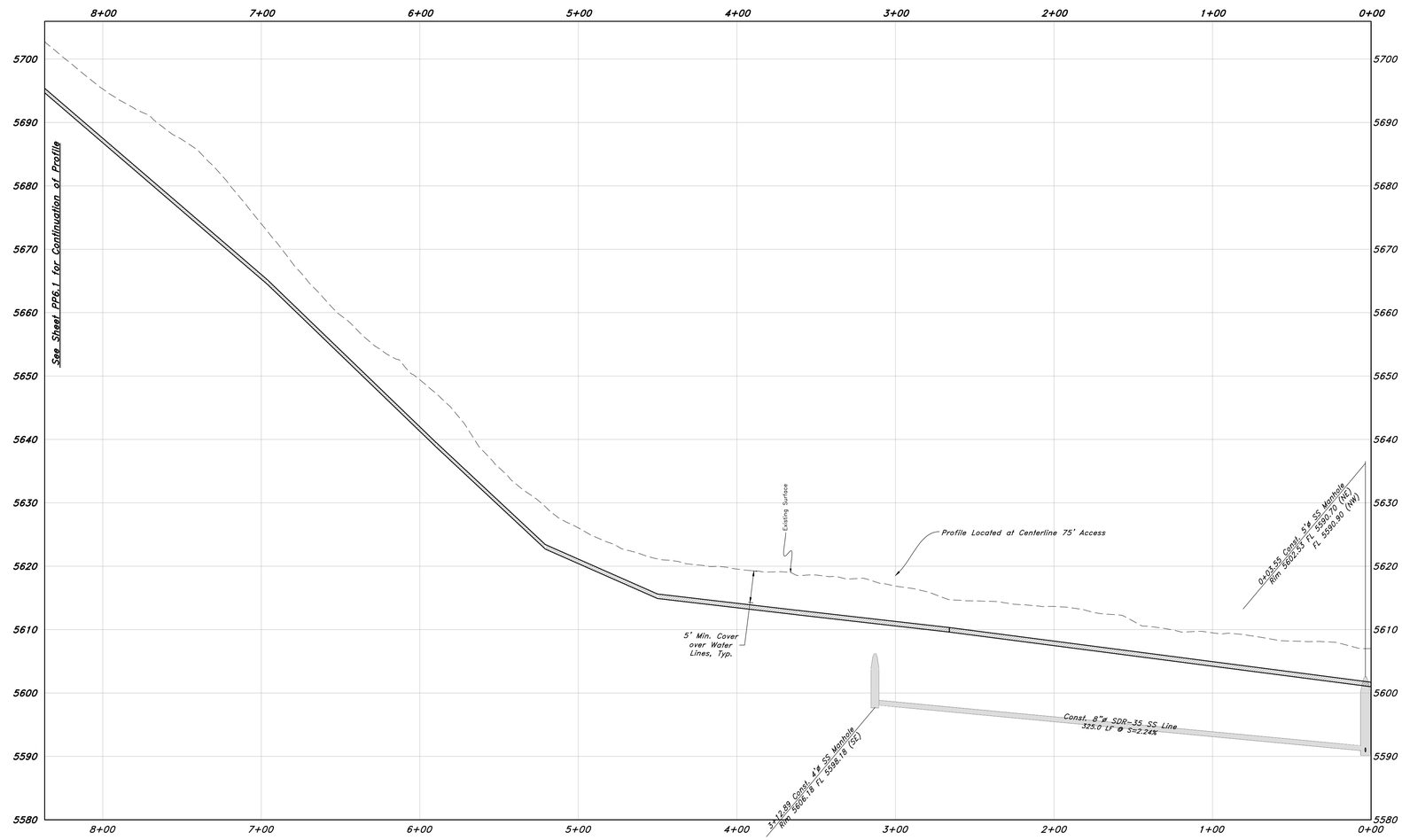
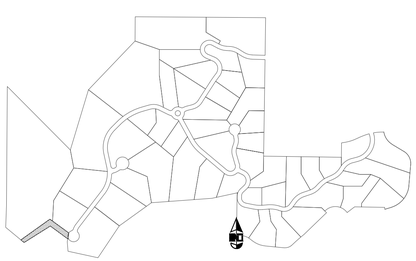
Graphic Scale







Road Profile Key Map

REV	DATE	DESCRIPTION

TENTATIVE FINAL

LICENSED PROFESSIONAL ENGINEER
No. 166447
MARK FRANKLIN BABBITT
STATE OF UTAH

GREAT BASIN ENGINEERING
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MAIN (801)394-4515 S.L.C. (801)521-0222 FAX (801)392-7544
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Sewer & Water Profile View

Legacy Mountain

11 JUN 2021

SHEET NO.

PP6.2

20N224

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GENERAL GRADING NOTES:

1. All work shall be in accordance with the County Public Works Standard.
2. Cut slopes shall be no steeper than 2 horizontal to 1 vertical.
3. Fill slopes shall be no steeper than 2 horizontal to 1 vertical.
4. Fills shall be compacted per the recommendations of the geotechnical report prepared for the project and shall be certified by the geotechnical engineer.
5. Areas to receive fill shall be properly prepared and approved by the County inspector and geotechnical Engineer prior to placing fill.
6. Fills shall be benched into competent material as per specifications and geotechnical report.
7. All trench backfill shall be tested and certified by the site geotechnical engineer per the grading code.
8. A geotechnical engineer shall perform periodic inspections and submit a complete report and map upon completion of the rough grading.
9. The final compaction report and certification from the geotechnical engineer shall contain the type of field testing performed. Each test shall be identified with the method of obtaining the in-place density, whether sand cone or drive ring and shall be so noted for each test. Sufficient maximum density determinations shall be performed to verify the accuracy of the maximum density curves used by the field technician.
10. Dust shall be controlled by watering.
11. The location and protection of all utilities is the responsibility of the permitee.
12. Approved protective measures and temporary drainage provisions must be used to protect adjoining properties during the grading project.
13. All public roadways must be cleared daily of all dirt, mud and debris deposited on them as a result of the grading operation. Cleaning is to be done to the satisfaction of the county engineer.
14. The site shall be cleared and grubbed of all vegetation and deleterious matter prior to grading.
15. The contractor shall provide shoring in accordance with OSHA requirements for trench walls.
16. Aggregate base shall be compacted per the geotechnical report prepared for the project.
17. Elevations shown on this plan are finish grades. Rough grades are the subgrades of the improvements shown hereon.
18. The recommendations in the following Geotechnical Engineering Report by Christensen Geotechnical are included in the requirements of grading and site preparation.
    The report is titled "GEOTECHNICAL INVESTIGATION LEGACY MOUNTAIN DEVELOPMENT HUNTSVILLE, WEBER COUNTY, UTAH"
    Job No.: 133-009
    Dated: JANUARY 8, 2021
19. As part of the construction documents, owner has provided contractor with a topographic survey performed by manual or aerial means. Such survey was prepared for project design purposes and is provided to the contractor as a courtesy. It is expressly understood that such survey may not accurately reflect existing topographic conditions.
20. Erosion Control: Protect all inlet boxes, catch basins, etc. with straw bales or other approved method to strain the storm water during construction. Protect surrounding properties and streets from site runoff with sandbags and earth berms.

GENERAL UTILITY NOTES:

1. Coordinate all utility connections to building with plumbing plans and building contractor.
2. Verify depth and location of all existing utilities prior to constructing any new utility lines. Notify Civil Engineer of any discrepancies or conflicts prior to any connections being made.
3. All catch basin and inlet box grates are to be bicycle proof.
4. All inlet boxes located in curb and gutter are to be placed parallel to the curb and gutter and set under the frame and grate. Improperly placed boxes will be removed and replaced at no additional cost to the owner. Precast or cast in place boxes are acceptable.
5. Refer to the site electrical plan for details and locations of electrical lines, transformers and light poles.
6. Gas lines, telephone lines, and cable TV lines are not a part of these plans unless otherwise noted.
7. Water meters are to be installed per county standards and specifications. It will be the contractor's responsibility to install all items required.
8. Water lines, valves, fire hydrants, fittings etc. are to be constructed as shown. Contractor is responsible to construct any vertical adjustments necessary to clear sewer, storm drain or other utilities as necessary including valve boxes and hydrant spools to proper grade.
9. Field verify all existing and/or proposed Roof Drain/Roof Drain down spout connections to Storm Water System with Civil, Plumbing & Architectural plans. Notify Engineer of any discrepancies.
10. All gravity flow utility lines shall be installed prior to any pressurized utilities unless written permission is obtained from the engineer of record before construction begins.

UTILITY PIPING MATERIALS:

All piping to be installed per manufacturers recommendations. Refer to project specifications for more detailed information regarding materials, installation, etc.

CULINARY SERVICE LATERALS

1. 3/4" to 2" diameter pipe – copper tube ASTM B, Type K, Soft Temper
2. Over 2" diameter pipe – AWWA C-900 Class 150 pipe

WATER MAIN LINES AND FIRE LINES

1. 8" Culinary Main Lines – Polyvinyl Chloride (PVC) Pipe, C-900, DR-18
2. 6" Fire Lines – Polyvinyl Chloride (PVC) Pipe, C-900, DR-18
3. 6" Booster Pump Lines – Polyvinyl Chloride (PVC) Pipe, C-900, DR-14

SANITARY SEWER LINES

1. All sewer piping to be Polyvinyl Chloride (PVC) sewer pipe, ASTM D 3034, Type PSM, SDR 35

STORM DRAIN LINES

1. 15" or larger – Reinforced Concrete Pipe, ASTM C76, Class III up to 13' of cover, Class IV for 13' to 21' of cover, Class V for 21' to 32' of cover, and Special Design for cover greater than 32 feet.

PRIVATE ENGINEER'S NOTICE TO CONTRACTORS

The Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the contractor shall defend, indemnify, and hold the owner and the engineer harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from the sole negligence of the owner or the engineer.

ALL CONSTRUCTION TO CONFORM TO WEBER COUNTY STANDARDS AND SPECIFICATIONS IN RIGHT OF WAY

REV	DATE	DESCRIPTION

MARK EUGENE BABBITT
No. 166400
STATE OF UTAH
6/11/21
TENTATIVE FINAL

GREAT BASIN ENGINEERING
574 SOUTH 1475 EAST OGDEN, UTAH 84403
MAIN (801)394-4515 SLC (801)521-0222 FAX (801)392-7544
WWW.GREATBASINENGINEERING.COM

General Notes

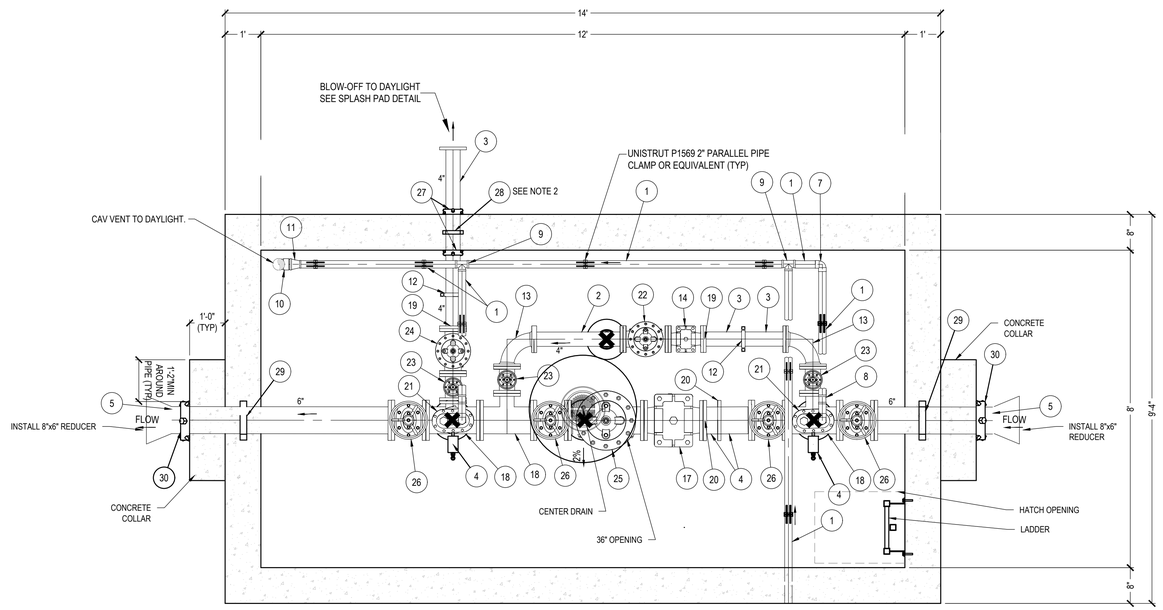
Legacy Mountain

11 JUN 2021

SHEET NO.

CD5.0

20N224

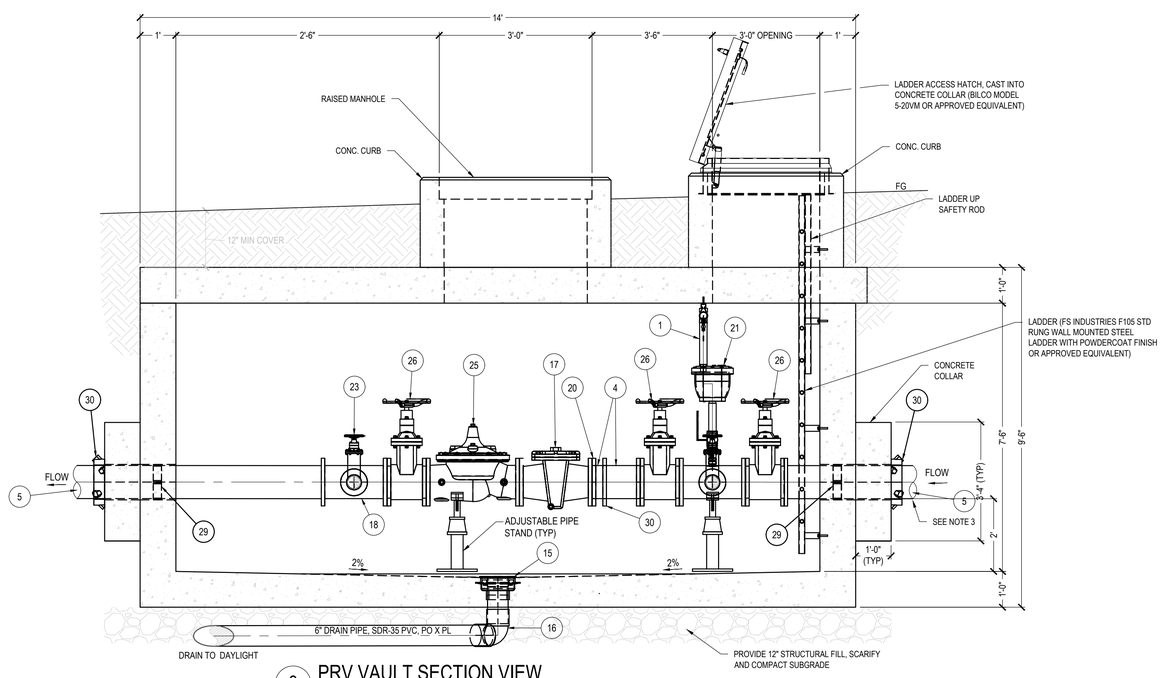


1 PRV VAULT PLAN VIEW

SCALE: NOT TO SCALE

NOTES:

1. ✖ DENOTES LOCATION OF ADJUSTABLE PIPE STANDS.
2. USE THRUST RING IF CAST IN PLACE VAULT.
3. SEE SHEET C3.0 FOR FLOWLINE INFORMATION AT VAULT

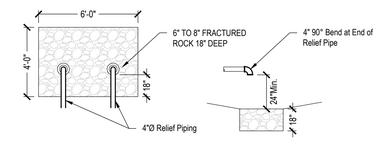


2 PRV VAULT SECTION VIEW

SCALE: NOT TO SCALE

FITTING SCHEDULE

ID	SIZE (LOWER)	SIZE (UPPER)	DESCRIPTION	MATERIAL	FITTING	REMARKS
1	2"	2"	PIPE	BRASS	THDM	
2	4"	4"	PIPE SPOOL	DIP	FL X FL	
3	4"	4"	PIPE SPOOL	DIP	FL X VIC	
4	6"	8"	PIPE SPOOL	DIP	VIC X FL	
5	6"	8"	PIPE SPOOL	DIP	FL X FL	W/ THRUST RING
4	3/8"	3/8"	PRESSURE GAUGE		THDM	2" FACE, OIL FILLED, 0-200PSI
7	2"	2"	ELBOW 90	BRASS	THDF	
8	2"x1/2"	2"x1/2"	REDUCING TEE	BRASS	THDF	
9	2"	2"	TEE	BRASS	THDF	
10	3"	3"	ELBOW 90	BRASS	THDF	
11	3"x2"	3"x2"	COUPLING, REDUCING	BRASS	THDF	
12	4"	4"	VICTAULIC COUPLING STYLE 77	STEEL	VIC	
13	4"	4"	ELBOW 90, LR	DIP	FL X FL	
14	4"	4"	BASKET STRAINER	CI	FL	CLA-VAL X43H STRAINER
15	6"	6"	ZURN Z-541 FLOOR DRAIN	CI	THDF	
16	6"	6"	BEND 90	SDR-35 PVC	PO X PO	
17	6"	8"	BASKET STRAINER	CI	FL	CLA-VAL X43H STRAINER
18	6"x4"	8"x4"	REDUCING TEE	DIP	FL	W/ TAPPING BOSS
19	4"	4"	VICTAULIC/FLANGE ADAPTER	STEEL	VIC / FL	
20	6"	6"	VICTAULIC/FLANGE ADAPTER	STEEL	VIC / FL	
21	2"	2"	COMB AIR/VAC VALVE ASSEMBLY	BRASS	THDF	
22	4"	4"	PRESSURE REDUCING VALVE	CI	FL X FL	CLA-VAL MODEL 90-01, YBCSKC, SS BALL VALVE, TUBES AND FITTINGS, 30-300 PSI PILOT
23	4"	4"	GATE VALVE, RESILIENT WEDGE	DI	FL X FL	
24	4"	4"	PRESSURE RELIEF VALVE	CI	FL X FL	CLA-VAL MODEL 50-01, YBCSKC, SS BALL VALVE, TUBES AND FITTINGS, 30-300 PSI PILOT
25	6"	6"	PRESSURE REDUCING VALVE	CI	FL X FL	CLA-VAL MODEL 90-01, YBCSKC, SS BALL VALVE, TUBES AND FITTINGS, 30-300 PSI PILOT
26	6"	6"	GATE VALVE, RESILIENT WEDGE	DI	FL X FL	
27	4"	4"	MEGALUG	STEEL		
28	4"	4"	THRUST RING			
29	6"	6"	THRUST RING	STEEL		
30	6"	6"	MEGALUG	STEEL		USE CONC. COLLAR AND MAGALUG THRUST RING IF PRECAST VAULT



2 SPLASH PAD FOR RELIEF PIPING

SCALE: NOT TO SCALE

REV	DATE	DESCRIPTION

MERIDIAN PROFESSIONAL ENGINEER No. 166400 MARK EUGENE BABBITT STATE OF UTAH 6/11/21

TENTATIVE FINAL

GREAT BASIN ENGINEERING
5746 SOUTH 1475 EAST OGDEN, UTAH 84403
MAIN (801)394-4515 FAX (801)392-7544
WWW.GREATBASINENGINEERING.COM

PRV Station

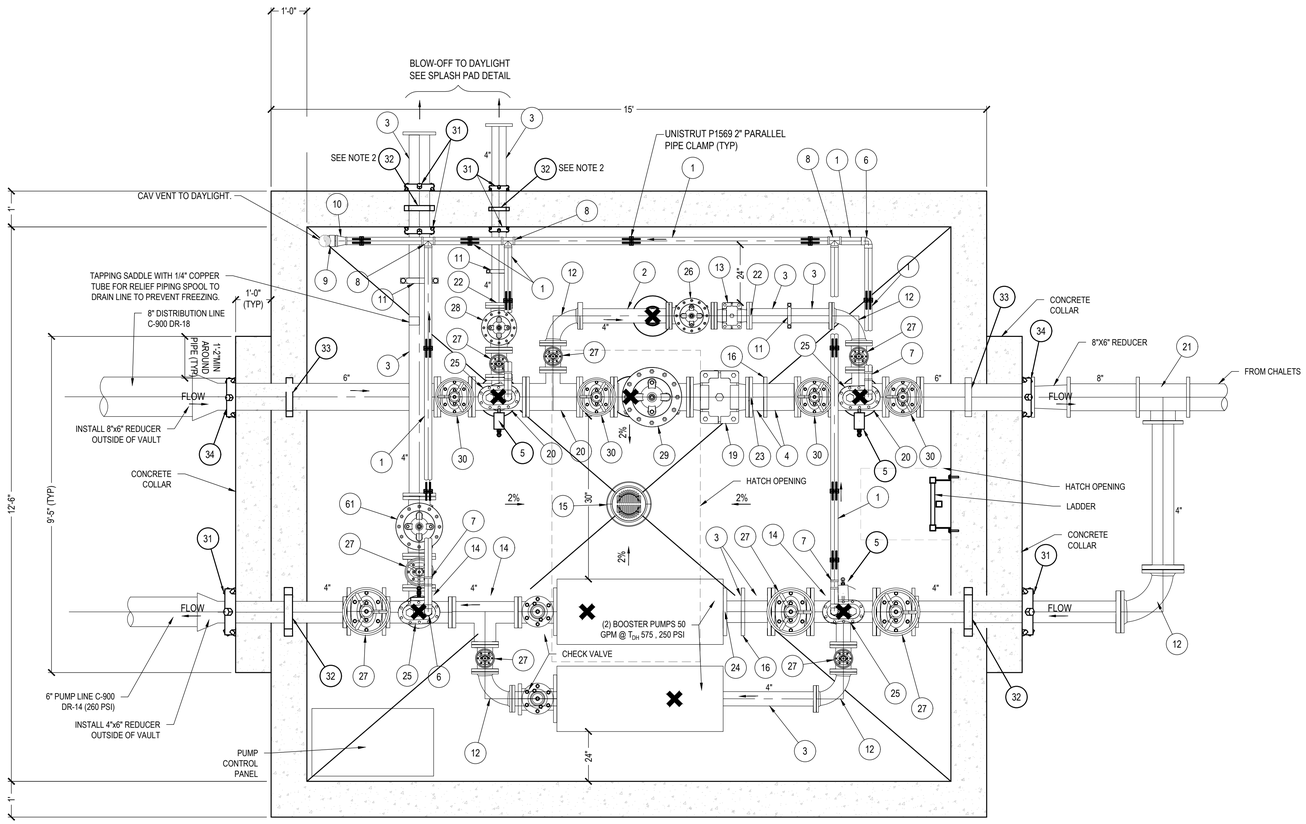
Legacy Mountain

11 JUN 2021

SHEET NO.

CD5.1

20N224

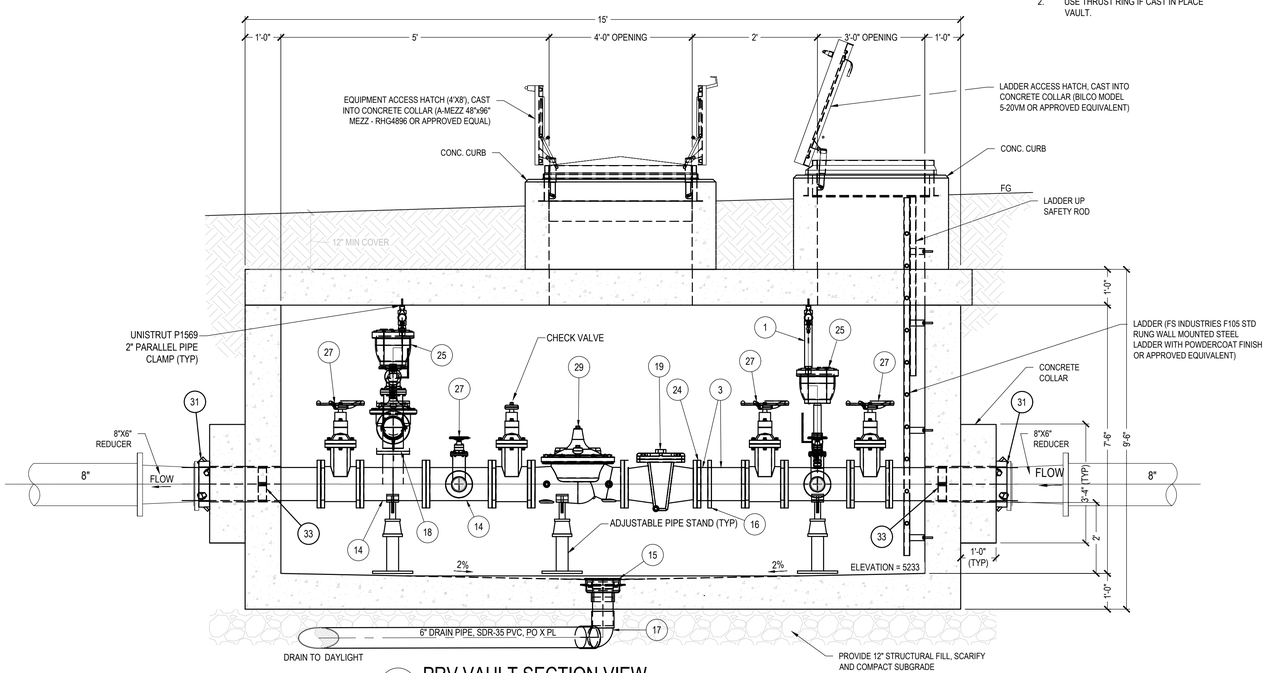


1 PRV VAULT PLAN VIEW

SCALE: NOT TO SCALE

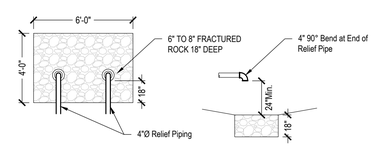
NOTES:

1. ✖ DENOTES LOCATION OF ADJUSTABLE PIPE STANDS.
2. USE THRUST RING IF CAST IN PLACE VAULT.



2 PRV VAULT SECTION VIEW

SCALE: NOT TO SCALE



2 SPLASH PAD FOR RELIEF PIPING

SCALE: NOT TO SCALE

FITTING SCHEDULE

ID	SIZE (LOWER)	SIZE (UPPER)	DESCRIPTION	MATERIAL	FITTING	REMARKS
1	2"	2"	PIPE	BRASS	THDM	
2	4"	4"	PIPE SPOOL	DIP	FL X FL	
3	4"	4"	PIPE SPOOL	DIP	FL X VIC	
4	6"	6"	PIPE SPOOL	DIP	VIC X FL	
5	3/8"	3/8"	PRESSURE GAUGE		THDM	2" FACE, OIL FILLED, 0-200PSI
6	2"	2"	ELBOW 90	BRASS	THDF	
7	2"x1/2"	2"x1/2"	REDUCING TEE	BRASS	THDF	
8	2"	2"	TEE	BRASS	THDF	
9	3"	3"	ELBOW 90	BRASS	THDF	
10	3"x2"	3"x2"	COUPLING, REDUCING	BRASS	THDF	
11	4"	4"	VICTAULIC COUPLING STYLE 77	STEEL	VIC	
12	4"	4"	ELBOW 90, LR	DIP	FL X FL	
13	4"	4"	BASKET STRAINER	CI	FL	CLA-VAL X43H STRAINER
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16	6"	6"	VICTAULIC COUPLING STYLE 77	STEEL	VIC	
17	6"	6"	BEND 90	SDR-35 PVC	PO X PO	
18	4"	6"	TEE	DIP	FL	
19	6"	8"	BASKET STRAINER	CI	FL	CLA-VAL X43H STRAINER
20	4"	6"	REDUCING TEE	DIP	FL	W/ TAPPING BOSS
21	8"x4"	8"x4"	REDUCING TEE	DIP	FL	
22	4"	4"	VICTAULIC/FLANGE ADAPTER	STEEL	VIC / FL	
23	6"	6"	VICTAULIC/FLANGE ADAPTER	STEEL	VIC / FL	
24	4"	4"	VICTAULIC/FLANGE ADAPTER	STEEL	VIC / FL	
25	2"	2"	COMB AIR/VAC VALVE ASSEMBLY	BRASS	THDF	SEE DETAIL 1 ON SHEET M-102
26	4"	4"	PRESSURE REDUCING VALVE	CI	FL X FL	CLA-VAL MODEL 90-01, YBCSKC, SS BALL VALVE, TUBES AND FITTINGS, 30-300 PSI PILOT
27	4"	4"	GATE VALVE, RESILIENT WEDGE	DI	FL X FL	
28	4"	4"	PRESSURE RELIEF VALVE	CI	FL X FL	CLA-VAL MODEL 50-01, YBCSKC, SS BALL VALVE, TUBES AND FITTINGS, 30-300 PSI PILOT
29	6"	6"	PRESSURE REDUCING VALVE	CI	FL X FL	CLA-VAL MODEL 90-01, YBCSKC, SS BALL VALVE, TUBES AND FITTINGS, 30-300 PSI PILOT
30	6"	6"	GATE VALVE, RESILIENT WEDGE	DI	FL X FL	
31	4"	4"	MEGALUG	STEEL		
32	4"	4"	THRUST RING			
33	6"	6"	THRUST RING	STEEL		
34	6"	6"	MEGALUG	STEEL		USE CONC. COLLAR AND MAGALUG THRUST RING IF PRECAST VAULT

REV	DATE	DESCRIPTION

TENTATIVE FINAL

MARK EUGENE BABBITT No. 166400 STATE OF UTAH

GREAT BASIN ENGINEERING
5746 SOUTH 1475 EAST, OGDEN, UTAH 84403
MAIN (801)394-4515 SLC (801)521-0222 FAX (801)392-7544
WWW.GREATBASINENGINEERING.COM

Std. PRV Station with Booster Pump

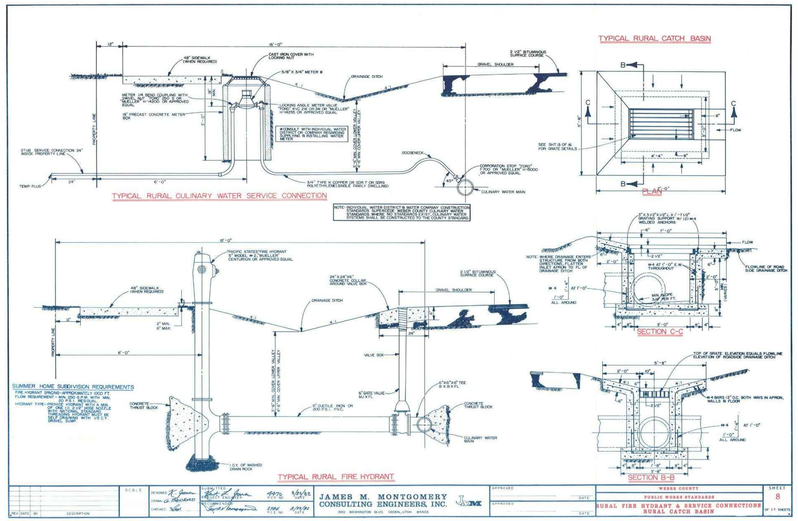
Legacy Mountain

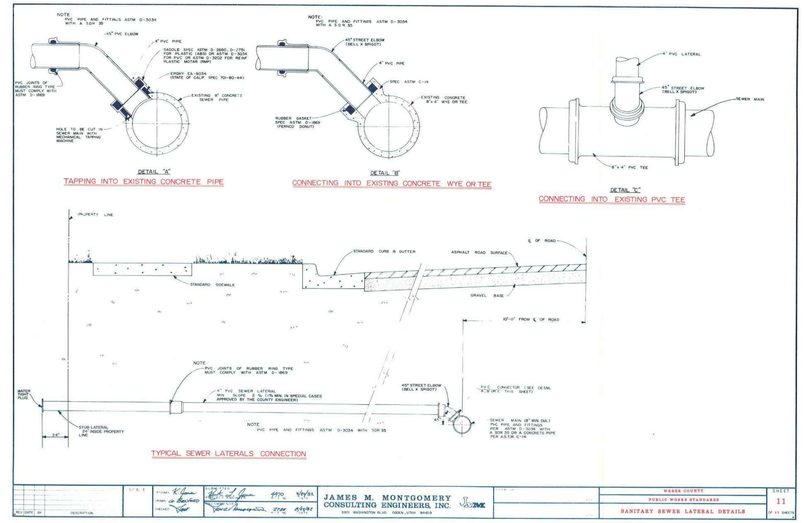
11 JUN 2021

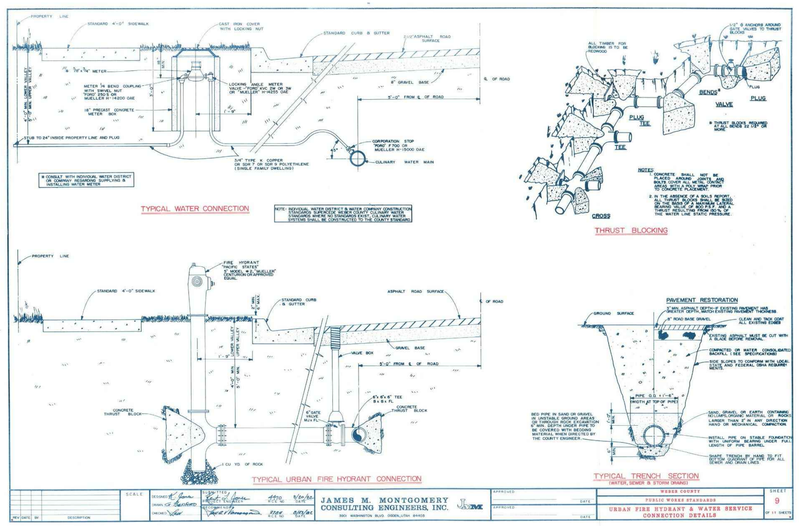
SHEET NO.

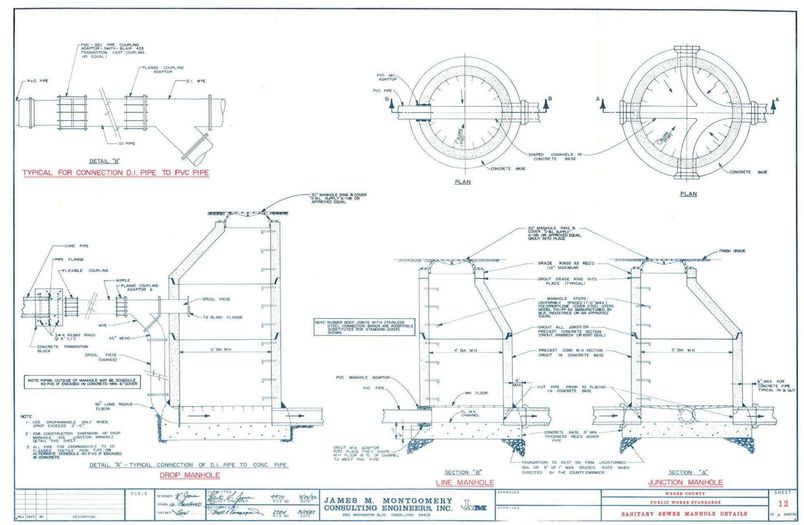
CD5.2

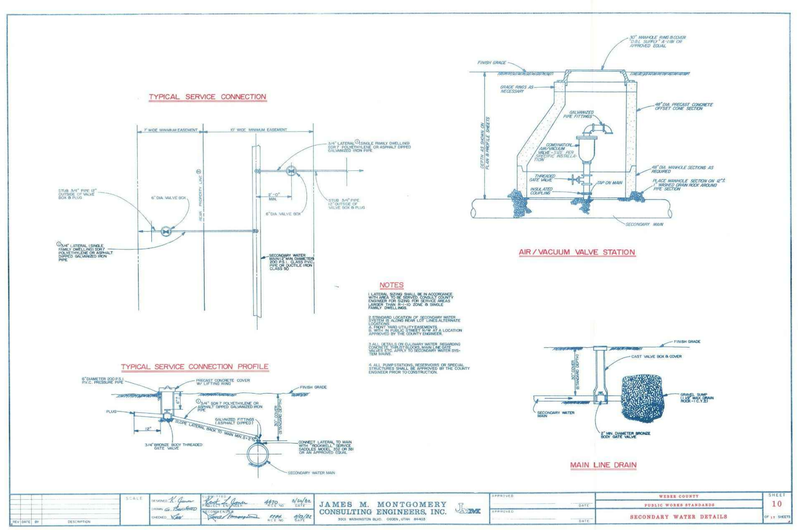
20N224

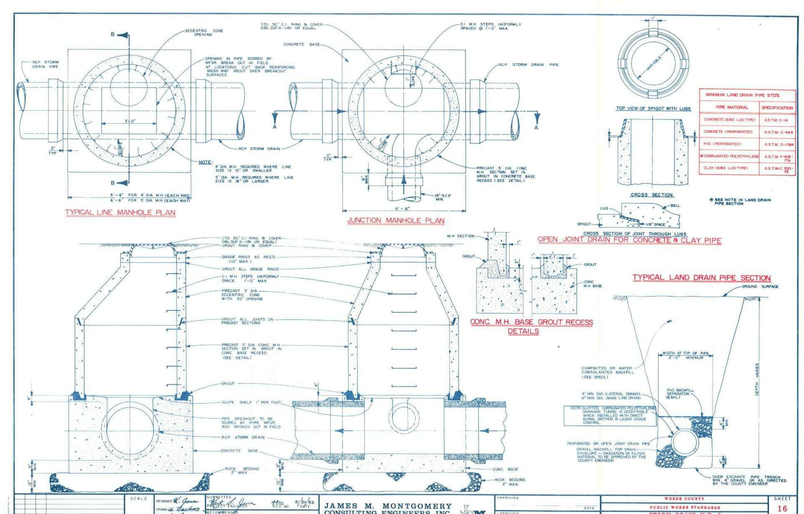












REV	DATE	DESCRIPTION

TENTATIVE FINAL

MARK EUGENE BABBITT No. 166400 STATE OF UTAH

GREAT BASIN ENGINEERING
5746 SOUTH 1475 EAST, OGDEN, UTAH 84403
MAIN (801) 394-4515 S.L.C. (801) 521-0222 FAX (801) 392-7544
WWW.GREATBASINENGINEERING.COM

Standard Detail Sheet

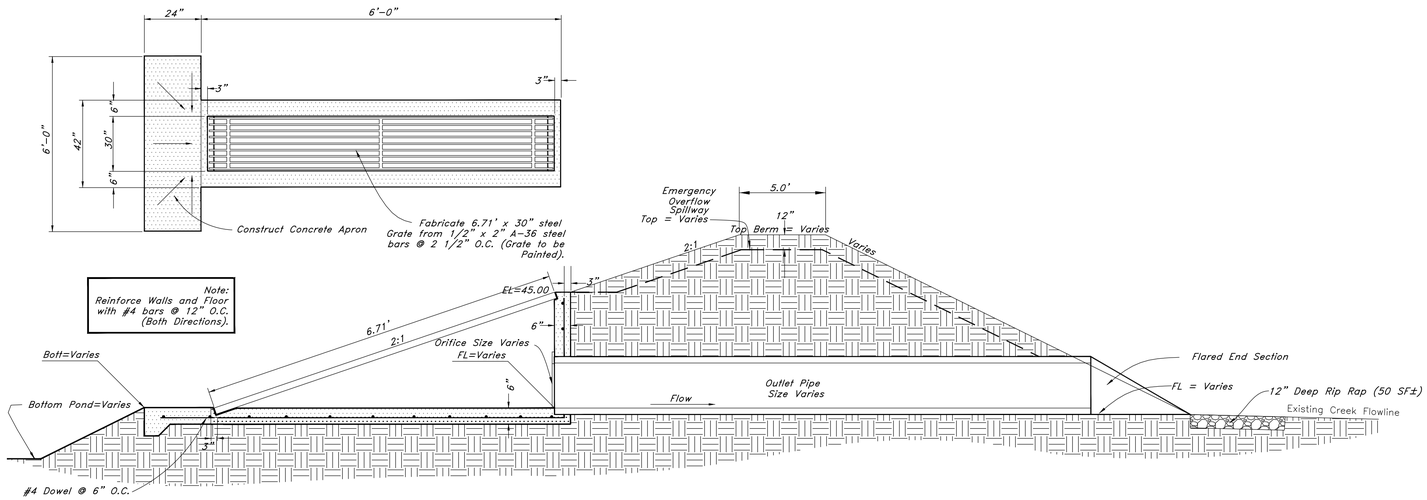
Legacy Mountain

11 JUN 2021

SHEET NO.
CD5.3

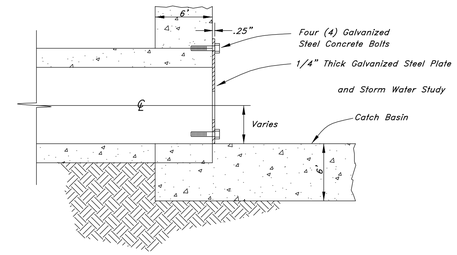
20N224

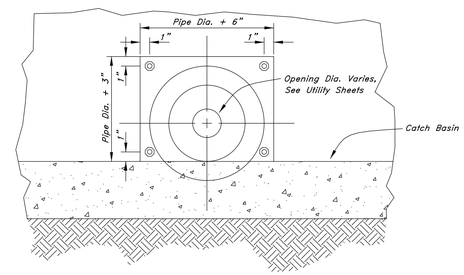
W:\20N224 - Legacy Mountain\Drawings\20N224 - S2 - Details.dwg, 6/11/2021 7:12:24 PM, HeatherA, 1:1



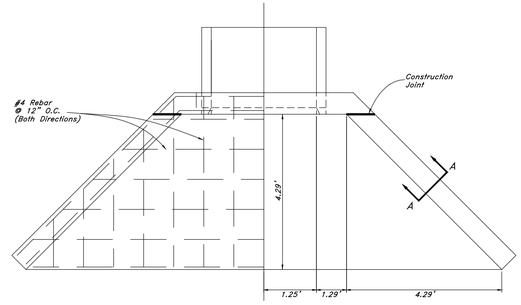
1 Typical Inlet / Outlet Structure

Not to Scale

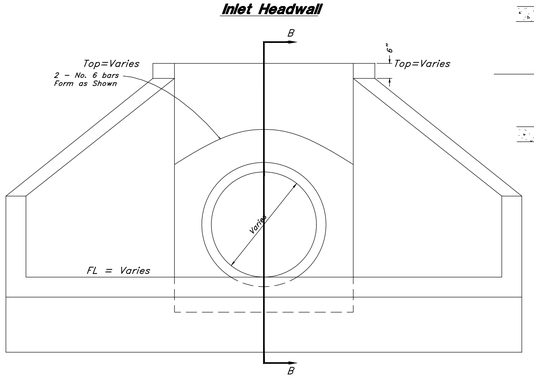




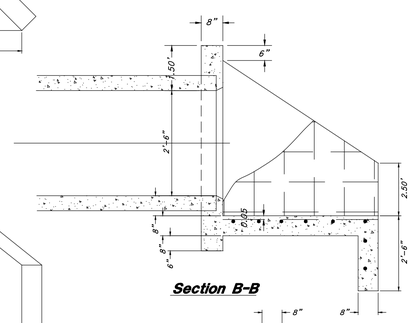
5 Orifice Plate Detail



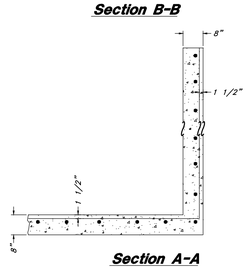
Inlet Headwall



Flared End Section Face Elevation



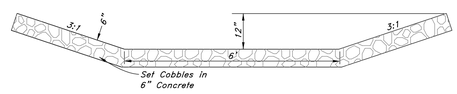
Section B-B



Section A-A

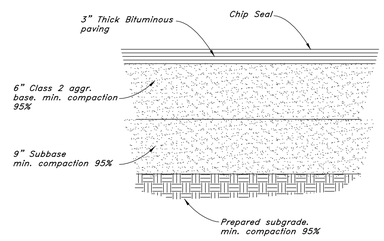
2 Standard Flared End Section Detail

Not to Scale



3 Emergency Overflow Spillway

Not to Scale



4 Typical Bituminous Pavement Section

REV	DATE	DESCRIPTION

TENTATIVE FINAL

MARK EUGENE BANDELI
No. 166447
STATE OF UTAH
6/11/21

GREAT BASIN ENGINEERING
5746 SOUTH 1475 EAST OGDEN, UTAH 84403
MAIN (801)394-4515 FAX (801)521-0222 (801)392-7544
WWW.GREATBASINENGINEERING.COM

Pond Details

Legacy Mountain

11 JUN 2021

SHEET NO.
CD5.4

20N224